

RIT Scale Norms Study

For use with Northwest Evaluation Association
Measures of Academic Progress® (MAP®) and MAP for Primary Grades

September 2011



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Few research studies are solely the result of their authors' thought and effort, especially if the study results are to be integrated into an operational setting. This study is certainly not one of the exceptions. To the extent it has been successful is due, in no small part, to the shared expertise and generous contributions of several individuals.

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Prologue

Since the RIT scale norms were first developed in 1996 each new norming study has included conceptual and methodological improvements over its immediate predecessor. These improvements have been made possible by the expanding NWEA partner base, technological enhancements in computing capabilities and data storage, and broad advancements in statistical methods for analyzing complex data structures. Over the past 15 years, norm studies have expanded from status norms (1996) to include grade level growth (1999), growth conditioned on 10-point RIT blocks of the observed starting score (2002), growth conditioned on observed starting score (2005), longitudinal growth and the use of instructional weeks as a covariate for growth estimated in a two-level model (2008), the use of the National Center for Education Statistics Common Core of Data to stratify the study sample to improve the representativeness of status norms (2008), and the inclusion of norms for kindergarten and first grade students (2008).

The current study continues that pattern of continual improvements and enhancements that have been established in previous studies. While nearly all changes are methodological in nature, they all emerge from a different conceptual framework for norms. Previous norms were developed from an empirical perspective. The current norms couple the empirical data with a stronger model-based perspective. A model-based post-stratification variable enabled us to facilitate a straightforward and efficient comparison of schools. A statistical model is used to better estimate true status and growth by simultaneously controlling for factors that can affect those estimates (starting RIT score, standard errors of measurement, sample weighting based on school characteristics, instructional weeks). These changes create estimates that are more completely representative of kindergarten through grade 10 students attending public schools in the U.S. and allow full inferential support.

We need to emphasize that no procedure in this study has changed any of the NWEA measurement scales in any way. A particular RIT score has the same meaning today as it did three, six, or even nine years ago. It is this constancy of scales that allows us to measure change and to compare student performance across time. What may have changed is how any particular RIT score corresponds to the score distributions (e.g., percentile ranks) from the norm studies carried out three, six, or nine years ago. It is important to keep in mind that these percentile rank differences are not score differences but simply reflect differences in the distributions of RIT scores between the various samples used in the studies.

Finally, we would like to acknowledge our educational partners who have demonstrated the foresight, trust, and commitment to allow student test scores to be stored in NWEA's Growth Research Database (GRD). This database is the primary data source for the vast majority of NWEA's research efforts. Strong viability of the GRD helps us to return the benefits of research findings to the larger educational and educational research communities. For this we are grateful and we will continue to work to maintain your trust.

Chapter 1 - Introduction

Norming studies of achievement tests fall into a class of research studies that are guided by a common objective: To deduce the summary features of an explicitly defined population of students based on the performance of available students from that population. The study reported here shares this general objective and is prompted by two interrelated motivations. The first is to provide a way for users of *Measures of Academic Progress*[®] achievement tests to consistently and accurately reference the performance of present and future students to performance expected in the population. The second is to maximize the *utility* of norming study results and information. More specifically, we focused on developing norms that are flexible and useful to professionals in schools, districts, and research settings as they are asked to translate test performance to meaningful benchmarks and indicators for informing educational decisions involving achievement data. Some elaboration on this focus should prove helpful.

Among the first questions asked about a score from an achievement test is, “What does a test score say about the student? What does it mean?” The questions are simple and straight-forward, but their answers can be involved. Since test scores have little intrinsic meaning, meanings must be carefully constructed from their contextual framework. With achievement test scores in K-12 education, we are helped somewhat knowing that they typically reference performance in a single content domain and that the performance is typically expressed as a point on an underlying scale. However, the relationships between the total score and the discrete skills, or knowledge that a student possesses, are not always clear. As a result, it is the total score that holds the strongest link to the student’s skill and understanding in the content domain. This is a view with large granularity and can be considered as one providing only an estimate of general proficiency in the content domain. Strand or goal scores can provide some limited information for additional inference. However, once we are satisfied that the test content is representative of the intended domain, detailed knowledge of test content offers little help in determining a score’s message about the student’s proficiency in the domain.

Common school realities and policies can, and often do, require scores to be used for different purposes, effectively changing their intended meanings and uses. Issues such as those involving accountability, estimating school effectiveness, estimating student progress, informing instructional content decisions, and using test results to select students into programs or make promotion or graduation decisions are among the more common uses of test scores. In these and other common situations, test scores take on not only different meanings, but carry varying consequences as well. While it is unlikely that any set of achievement test norms can fully accommodate such a broad range of uses and score meanings, it is a reasonable challenge to develop norms that can optimize the information that is used in these contexts.

Critical to taking up this challenge is the availability of references to student achievement status and change that can accommodate some variation in when tests are administered, differences in the precision of achievement estimates, and how their results are to be used. The results from this norming study

provide a clear move in this direction. To accomplish this, an integrated conceptual and analytic framework was developed. The framework helps to define the operational boundaries within which norming study results can be used to reference normal performance, while taking into account test administration procedures that allows wide latitude in the amount of instructional time that precedes a test or falls between two tests. Its implementation in the study provides the necessary conceptual and statistical support in that the approach:

- Is internally consistent across all scores from the same content domain
- Acknowledges and incorporates each score's measurement error in the analyses
- Accommodates the full range of scores that a test can yield
- Incorporates score variation both within and across groups of test takers
- Incorporates score changes of individual test takers from one test occasion to another
- Supports the use of scores and score changes within the psychometric constraints of the underlying measurement scale
- Provides an integrated and tractable model for estimating the rate of change of test performance over test occasions separated by varying intervals of instruction
- Incorporates a time dimension that has a positive correlation with the score both as an estimate of achievement status at a point in time and as part of an estimate of score change from a prior test occasion
- Employs a sample post-stratification procedure to insure that inferences about test performance relative to the population of interest are made based on a representative sample of that population

The value of such a framework becomes clear when the differences in the tasks of developing norms for MAP assessments and the tasks of developing norms for traditional large scale achievement tests are compared.

In the case of traditional achievement tests, norming studies tend to follow a common pattern. A single reference test form, perhaps with several additional parallel test forms, is administered to randomly selected schools or groups of students within a pre-specified timeframe of 3 to 4 weeks. Sampling plans, perhaps augmented by post-stratification procedures, are designed to yield a sample that is representative of the target population for the test. Tests are scaled using the same sample. Results from these norming studies can be referred to as test-centric. That is, the test or test form and the performance scale used for reporting are inextricably linked; the representativeness of the sample notwithstanding, scale score references (e.g., grade level mean, standard deviation, percentile ranks) apply only to the reference test form and its associated parallel forms. Norms from such studies are

technically only applicable as references to test performance that come from tests administered in a timeframe that corresponds to that the one used for the study (e.g., Sept. 15 through Oct. 15).

NWEA uses a different approach.

MAP assessments are computerized adaptive tests. Individual tests are constructed based on the student's performance while responding to items constrained in content to a set of standards (usually defined by a state). Items are selected from a pool of Rasch-calibrated items. Since all items in a single content domain are calibrated to the same scale, different tests that may be constructed in that domain are all children of the same parent, and scores from different tests constructed from that domain can be interpreted in the same manner. For this study, all candidate test records represented well over 800 separate item pools across the five content domains of reading, language usage, mathematics, general science, and science concepts and processes.

Test events used to construct the norms were taken from operational tests that are in routine use in schools; special recruiting to achieve sample representativeness was avoided, in favor of a post-stratification procedure to achieve representativeness to the target (U.S. school-age) population. Using operational tests requires that the time of test administration cannot be arbitrarily imposed. To be used in improving the precision of norm references the time of test administration must be accounted for within the conceptual and analytic framework. Results from this norming study, therefore, reference performance that is related to *scales of measurement* and are representative of their target population. Moreover, achievement estimates came from operational tests administered in active testing programs, and since instructional schedules were known for each school, varying test administration times were anchored to instructional time and accounted for in the analysis. This has the effect of strengthening the representativeness of the norms in another way; they are based on performance data collected from tests that were administered on schedules consistent with user needs, rather than according to arbitrarily imposed timeframes.

There is a second key difference between the approach taken here and conventional norming studies. Achievement status at particular points in time is the primary focus in conventional studies. While the methodology in this study certainly includes estimation of status, estimates of magnitude and the rate of change in performance from one point in time to another are given concurrent methodological attention. In order to characterize changes in test performance over successive test occasions (i.e., achievement growth), *students* rather than individual test scores are sampled. With students as the sampling unit, all of a student's test events (referred to herein as a student's test event *history*) in a particular content area over the five academic term time frame used for the study are included when a student is selected. The results from these test events are used to estimate both status and growth norms, simultaneously.

The norms presented in this document can help to answer many of the questions teachers and parents commonly ask about student test performance and achievement estimates provided from MAP tests.

These include but are not limited to:

- How does this child's reading performance compare with the performance of other children of his age and grade across the U.S?
- How can this child's mathematics performance, that was estimated six weeks later than her peers, be compared to her peers?
- How much progress might be expected of this grade 7 student after 42 weeks of instruction, who had a RIT score of 212 in the fall of this year? And since initial achievement status has been shown to be related to the rate of change, how does this expectation compare with those of her peers who scored about 15 RITs higher in the fall?
- How does my child's growth of 9 RITs over the past 27 instructional weeks compare with other students in the same grade who started out with the same RIT score, with the same number of instructional weeks before his first test and the same number of instructional weeks between tests?

Readers of previous NWEA norming studies will immediately recognize that this study took a fundamentally different approach to developing norms. Differences can be seen in the ways students were sampled, the post stratification procedures used to achieve representativeness of kindergarten through grade 10 students attending public schools in the U.S., the lengths of timeframes for data used, the use of instructional time in producing norms estimates, and the statistical methods used to produce both status and growth norm estimates. In addition, these methodological changes are accompanied by a changing NWEA partner base. In view of both of these changes, it is fair and logical for these readers to ask what changes from the 2008 norms can be expected in the 2011 norms.

We expected and found that changes in *status* norms would be relatively minor. Both studies used a method to post-stratify samples to reflect kindergarten through grade 10 students attending public schools in the U.S. Percentile ranks for grades 3 and above changed very little, with the largest differences in the tails of the distributions. The differences that do exist are primarily the result of the differences in the sample adjustment methodology and the changing NWEA partner base. Somewhat larger differences may be observed for kindergarten and grades 1 and 2, again, particularly in the tails of the distributions. Post-stratification of the 2008 kindergarten and grade one samples was not performed.

We anticipated changes in the *growth* norms as well in view of the fact that the 2008 growth norms were fundamentally user norms; post-stratification was not employed. We found post-stratification weighting led to differences that are minor in the middle of the achievement range and somewhat larger at the ends of the range, particularly at the very extremes. These changes are the result of new methods to improve the representativeness of the norming samples and the introduction of the new estimation procedures. Substantial changes in the growth estimates for very high or very low achieving students may be observed. For low achieving students, growth *expectations* will typically be somewhat lower than those estimated from the 2008 study. For high achievers, *expected* growth will often be estimated to be somewhat higher than corresponding estimates from 2008.

The largest changes in growth estimates occur for the most extreme initial scores. This means that relatively small numbers of students will see very large changes. However, in classrooms and schools with large numbers of very low performing or very high performing students, larger changes in their aggregate growth estimates are therefore to be expected.

The remainder of this document is organized into several chapters. In Chapter 2, a brief description of the tests used to obtain achievement estimates is presented. The methods used to create pools of candidate test records for the study are also provided in Chapter 2. Chapters 3 and 4 address different aspects of the study methodology. Chapter 3 defines the target population for the study and identifies the variables included in a School Challenge Index (SCI) developed for use in the post-stratification process. A detailed description of the development and application of the SCI is included. In Chapter 4, the statistical model used to compute status and growth norms is described. Grade level status and growth norms are presented in Chapter 5. Several extensive appendices provide additional details of the foregoing chapters.

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Chapter 2 - Test Structures and Pools of Candidate Test Events

All norms reported in this document are based on student performance on the *Measures of Academic Progress*[®] (MAP[®]) achievement tests. Content areas included in MAP are reading, language usage, mathematics, general science, and science concepts and processes. All assessments are delivered as computerized adaptive tests (CAT) in one of two forms: a survey test or a survey with goals test. Survey tests are 20 items in length while survey with goals tests range from 30 items (for science-related tests) to 40 items (for reading), to 50 items (for mathematics and language usage). Only test events that were based on survey with goals tests were included in this study because they are associated with relatively lower measurement errors than survey tests.

Content for the overwhelming majority of MAP tests is aligned to the content area standards adopted by the particular state in which the test is intended to be used. There is a set of tests for each content area for each of the 50 states. At a minimum, a set of tests for a state consists of seven tests that are structured by grade level and content area, as illustrated in Table 2.1.

Table 2.1. Number of Items Per Test by Content Area

Content Area	Grades	Number of Items
Reading	2-5	40
	6+	40
Language Usage	2-10	50
Mathematics	2-5	50
	6+	
General Science	3-10	30
Science Concepts & Processes	3-10	30

For those tests that are not content-aligned to a particular state's content standards, content is aligned to standards proposed by a recognized professional organization (e.g., the National Council of Teachers of Mathematics, *NCTM*, for mathematics; the National Council of Teachers of English, *NCTE*, and the International Reading Association, *IRA*, for reading).

Test items are not unique to specific tests, but are typically shared across different state-aligned tests within a content domain when different content specifications call for the same knowledge, understandings, or skills. Items are pulled together in pools for the purpose of test delivery. There is one test pool for each state-grade level-content area combination. These pools range in size from roughly 1,500 to 3,000 items. Test events used in this study from across all content areas came from 883 separate item pools.

All items in a common content area are calibrated to the same underlying scale using a one parameter logistic (1-PL or Rasch) model. The single parameter referred to is the location parameter; that is, the location (difficulty) of test items and the location (achievement) of persons measured on the same scale. With both items and persons occupying positions on the same scale, the task of selecting appropriately difficult items for a person whose achievement is well estimated is straightforward. MAP tests capitalize on this simple relationship – the software presents an item of known difficulty, collects the student’s response, uses a Bayesian procedure (Owen, 1975) to estimate the student’s achievement from that response in conjunction with their responses to all previously administered items, and selects another item that is closest to that estimate. As this cycle is repeated, each successive achievement estimate is slightly more precise than the previous one until the error associated with the estimate is as small as it is likely to be in the test session. The result, the final achievement estimate, or RIT score, is based on maximum likelihood (ML) and represents the person’s location on the additive scale (RIT scale) that is qualified by a standard error of measurement (SEM). Characteristically, MAP tests yield precise achievement estimates; that is, their SEMs that are generally less than 0.3 of a typical large sample standard deviation (Kingsbury & Hauser, 2004). Standard errors vary minimally across over 90% of the achievement range of a grade level. This makes MAP scores well suited for use in growth models as well as other statistical procedures that assume additive measures.

Tests can be administered to the same student between two and four times per calendar year, depending on the depth of the item pool for content area, grade span, and content alignment. To control multiple presentations of the same items to the same student, an item lockout period is imposed. The lockout period prevents an item presented to a student during a test event from being presented in subsequent test events that occur over a specified period. For all tests events that make up this study, the item lockout period was 24 months. There are no restrictions concerning specific timeframes or even times of the year in which tests may be administered. Test administration schedules are left entirely to schools and/or school districts or agencies.

Further details about the background, development, technical, and operational characteristics of MAP tests appears in the *Technical Manual for Measures of Academic Progress (MAP) and Measures of Academic Progress for Primary Grades (MPG)* (NWEA, 2011).

Pools of candidate test events

Data source. The source for candidate test event records was the *Growth Research Database (GRD)*. The GRD is a repository of test event information (e.g., score, SEM, duration, test pool, test date); accompanying information about demographics of the test taker (e.g., school, grade, gender, ethnic group membership); collateral information about items taken and their characteristics; as well as links to datasets from external agencies such as the National Center for Education Statistics’ Common Core of Data (NCES-CCD). Created and maintained by Northwest Evaluation Association, the GRD currently holds

over 200 million test event records, dating back to spring, 2002. Roughly 99% of these records are from MAP tests.

Timeframe and inclusion criteria. The study timeframe included the testing terms of spring 2009, fall 2009, winter 2010, spring 2010, and fall 2010. Any test event falling into one of these terms was treated as a candidate for inclusion if it met several eligibility criteria:

- Test was a survey with goals test as opposed to a survey test
- Test terminated normally – was full length and was not terminated by a proctor
- Test duration was longer than 6 minutes
- For RIT scores < 240 , $2 < SEM \leq 4.5$; for RIT scores ≥ 240 , $SEM > 2$
- Number of students tested in the test taker's school and grade was $\geq 75\%$ of the 2007-2008 enrollment provided in the NCES Common Core of Data (Sable & Plotts, 2010)

These criteria were applied to all test event records falling in the study timeframe. In addition to the RIT score, several additional data elements were retrieved for each test record. These included:

- the test's scale key – e.g., mathematics, language usage
- SEM of the score
- the district identifier key
- the school identifier key
- the GRD-assigned student identifier key
- the student's grade when the test was taken
- the term the test was taken
- the date the test was taken
- the district-specific *instructional day* on which the test was taken
- the specific test version that was taken
- all relevant school-specific variables from the NCES-CCD Public School Universe dataset for the test taker's school (see Chapter 3 for specific variables)

The structures of the resulting test record pools varied primarily by content area and, to a lesser extent, by testing term. Table 2.2 shows the grades for which growth and status norms were computed. This structure is broken down further in Tables A.1 through A.10 in Appendix A, which summarize the structures by state and grade level for each content area and the fall 2009 and spring 2010 testing terms.

Table 2.2. Content Area – Grade Combinations by Type of Norm Provided

Content area	Grade												
	K	1	2	3	4	5	6	7	8	9	10	11	
Reading	●	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	●
Language Usage			▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	●
Mathematics	●	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	●
General Science				▲	▲	▲	▲	▲	▲	▲	▲	▲	●
Science Concepts & Processes				▲	▲	▲	▲	▲	▲	▲	▲	▲	●

Note: ● status norms only.

▲ growth and status norms

Chapter 3 - Approximating the Reference Population with Post-Stratification Adjustment

As is shown in Appendix A (Tables A.2 – A.10), MAP tests are administered in virtually all states in the U.S. The vast majority of tests are administered in reading, language usage, and mathematics in grades kindergarten through 10. These facts were taken as justification for focusing on kindergarten through grade 10 students attending public schools in the U.S. as the reference population for the study. As we have also discussed in Chapter 2, the pool of students in our data archive represents NWEA's partner base in the 2010-2011 school year. It is reasonable to expect that the available students at any point in time reflect to some unknown degree changes in MAP subscription patterns, in addition to the evolving make-up of the U.S. school-age population. By itself, it is questionable whether data from our student pool adequately informs the patterns of performance of all kindergarten through grade 10 students attending public schools in the U.S., which is the population targeted in the 2011 norms. Norming results that are based on such data alone would reflect baselines specific to NWEA's partner base. Thus, a first step towards building nationally representative norms from a convenience sample, such as that represented by our student pool, is to consider how NWEA students differ from the students in the target population on factors that might influence their achievement.

To extend inferences to kindergarten through grade 10 students attending public schools in the U.S from NWEA schools, knowledge about differences in the joint distributions of certain key observed features between NWEA (sampled) and non-NWEA (un-sampled) schools in the population can be employed to construct "population weights" that, when applied, would allow the analyst to post-stratify the available sample of schools to better reflect those key features of schools in the population. Post-stratification adjustment to the data in hand is a common strategy in cases where stratification prior to sample selection is impossible (Holt & Smith, 1979; Pike, 2007), as would largely be the case for convenience samples like the data in the NWEA client data-base. Post-stratification is also often applied when one suspects that simple random sampling or systematic sampling, upon comparing sample and population distributions of key attributes describing the units, may not have been entirely satisfactory.

Generally speaking, suppose that a student is individually selected with a uniform probability of p_i the, the population weight for this student's school j from a suitable post-stratification analysis is W_j . The

total weight for a student i 's observed score in an analysis would be $\left(\frac{1}{p_i}\right)W_j$. The 2008 NWEA norms

for achievement status post-stratify students using the two school-level measures: (a) the ethnic composition of students in the school and (2) the proportion of students who are eligible for free-and-reduced-priced lunch in the school. The need to collapse some empty cells was a concern and post-stratification adjustment of the available data was not applied for growth norms in 2008 for several analytic reasons. We remedied this situation in 2011 with a new approach that (1) estimates population

weights for post-stratifying the available NWEA schools in each state to better represent schools in the state on a wider set of school-level factors than previously attempted, and (2) employs the population weights in a statistical model to estimate achievement and growth norms simultaneously for kindergarten through grade 10 students attending public schools in the U.S..

Post-stratifying NWEA Schools on the School Challenge Index (SCI)

We elected to use several school-level variables that are routinely available from the National Center for Education Statistics' Common Core of Data in the Public School Universe (NCES-CCD-PSU) dataset (Sable & Plotts, 2010). These variables were selected for the longstanding attention they have received in the research literature, and discussions of educational policy. Each variable has been the topic of or accounted for in hundreds of research studies ranging from their effects on achievement and learning to their inclusion in policy development. The specific variables or the combination of variables created from NCES data are presented in Table 3.1. All data were taken from the 2008-2009 NCES-CCD-PSU dataset.

Table 3.1. NCES Variables Used In the School Challenge Index (SCI)

NCES variable	SCI variable	NCES Description	Notes / codes
ULOCAL08	School locale	NCES urban-centric locale code	Used only the "urban" portion of the variable without the size/distance portion, resulting in the categories of: 1 = city 2 = suburb 3 = town 4 = rural
TYPE08	School type	NCES code for school type	1 = Regular 2 = Special education 3 = Vocational (not included) 4 = Other/alternative 5 = Reportable program (not included)
LEVEL08	School level	School level by low and high grades served	1 = Primary (Low = PK – 3; High = PK – 8) 2 = Middle (Low = 4 – 7; High 4 – 9) 3 = High (Low = 7 – 12; High = 12 only) 4 = any other grade configuration (e.g., 2 – 10)
TITLEI08	Title I	Title I Eligible	1 = Yes 2 = No
MAGNET08	Magnet	Regardless of the source of funding, a magnet school or program is a special school or program designed to attract students of different racial/ethnic backgrounds for the purpose of reducing, preventing, or eliminating racial isolation and/or to provide an academic or social focus on a particular theme /	1 = Yes 2 = No

continued

Table 3.1. NCES Variables Used In the School Challenge Index (SCI)

NCES variable	SCI variable	NCES Description	Notes / codes
CHART08	Charter	A school that provides free elementary and/or secondary education to eligible students under a specific charter granted by the state legislature or other appropriate authority /	1 = Yes 2 = No
MEMBER08	--	Total students, all grades	Used for calculation only – not used directly in school challenge index
TOTFRL08	Proportion FRL	Total of free lunch eligible and reduced-price lunch eligible.	The proportion that TOTFRL08 represents of the total school enrollment (TOTFRL08 / MEMBER08)
AM08	--	Total American Indian/Alaska Native students	Used for calculation only – not used directly in school challenge index – used to calculate the Proportion of ethnic variable
HISP08	--	Total Hispanic students	Used for calculation only – not used directly in school challenge index – used to calculate the Proportion the of ethnic variable
Black08	--	Total Black students	Used for calculation only – not used directly in school challenge index – used to calculate the Proportion of ethnic variable
--	Proportion of ethnic	--	Proportion of “ethnic” students calculated as (AM08 + HISP08 + Black08) / MEMBER08
FTE08	Staff FTE	Total full-time equivalent classroom teachers	
PUPTCH08	Pupil-Teacher ratio	Calculated pupil/teacher ratio: Total reported students (MEMBER08) divided by FTE classroom teachers (FTE08).	

It should be noted that while the variables listed in Table 3.1 are relatively common across states, state-specific demographics and adopted policies can and do cause their distributions to vary, sometimes widely, between states. Review of these differences and the absence of a compelling, plausible argument for aggregating these variables across states to create a single index, lead to the decision to create a School Challenge Index for each state. These procedures are described in the next sections.

Background

A common approach for developing population weights can be illustrated by assuming that post-stratifying be based on two variables: Student ethnicity and student free-and-reduced-priced lunch status. Both are categorical variables and many cells in the resulting joint distribution may contain no schools of interest if the available set of schools is small in number. In practice, some collapsing of the categories is further needed to attain workable cell numbers, leading to a concern that the post-stratification weights take on different meanings as cells in the two-by-two joint distribution are collapsed, or if a category needs to be deleted in one margin or another. This is a frequently encountered problem, and one that

becomes more likely as both the number of categories and the number of variables to be employed increase. It is often difficult to produce weights to reflect adequately a multi-factor discrete distribution, a situation that is made more difficult if both continuous and categorical variables are present.

If post-stratification is to be based on comparing the distributions of sampled units and units in the population on a large number of factors, three approaches are plausible. The first is to work with the joint distribution of the factors, as indicated above, if all factors are categorical or categorized (if it is originally a continuous variable). The problems with empty cells noted above can be a huge stumbling block when the numbers of variables and categories increase. A second approach is to employ a dimensional reduction analysis, such as the *Mahalanobis distance* metric (Mahalanobis, 1936), or factor scores from a one-factor factor analysis model. These methods are generally available for continuous variables but working with a mix of both continuous and categorical variables would require a far greater level of sophistication. Furthermore, it is often hard to explain what the resulting dimension represents, and this has persuaded some users to consider approaches akin to the third alternative.

A strategy for using as much of the information from a large number of variables, categorical or continuous, in post-stratification might draw upon the idea of the *propensity score* as a solution to matching units on a large number of dimensions (Rosenbaum & Rubin, 1983). The probability that a unit receives treatment is the propensity score for that unit. This probability is generally based on a logistic regression of treatment status for a group of units (treated and untreated) on a number of relevant covariates (whether categorical or continuous). The idea is that treatment and control units within a suitable range on their propensity score are considered “similar” in terms of their shared covariate profiles and so the difference on their outcomes can be more justifiably attributed to the treatment in question.

While the original intent of propensity score analysis is to support causal inference in observational studies and quasi-experiments, its key methodological insight has far greater application. At the core of the propensity score proposal is that, if units are to be matched on a large number of factors, they can be matched efficiently on a single dimension that is built upon the information from a regression among the same factors. Our third approach is exemplified by the Similar Schools Index (SSI) designed by the State of California to facilitate the ranking of their schools (State of California DOE, 2000). It employed school-level testing results as the outcome in a regression on a large number of school-level demographic, community, and structural information to characterize the performance of schools in relation to the factors under which they operate. Deriving a single dimension on which schools may be compared in this way may serve to effectively compare the schools across multiple dimensions. We think post-stratifying schools on such an index can lead to norming results that better represent kindergarten through grade 10 students attending public schools in the U.S. Thus, the SSI is a useful point of departure for understanding the School Challenge Index (SCI).

School Challenge Index (SCI)

Because schools serve students with a wide range of needs, and under an even wider range of conditions, evaluators are rightly skeptical about comparisons of school effectiveness that do not also take into account well-known differences in the challenges schools individually face every day at the school site. The SCI is a new measure of how schools in a state compare in terms of the challenges and opportunities they operate under as reflected by an array of factors they do not control. This school measure generally taps the collective economic circumstance of its students, but it also offers a broader view of the “economic strain” they experience as seen through a relevant set of socio-demographic, organizational, and educational policy programming factors. Unlike the California SSI, no achievement data enter into its definition because doing so will potentially prejudice schools across strata when they are later evaluated on their students’ achievement results.

The SCI considered many school-level variables. The distributions for each selected variable are presented by state in Tables B.1 through B.12 in Appendix B. A school’s affiliation with NWEA was not a part of constructing the SCI. Review of these differences and the absence of a compelling, plausible argument for aggregating these variables across states to create a single index, lead to the decision to create an SCI for each state. The state-specific SCI is used to construct post-stratification weights, the use of which increases the generalizability of norming results based only on the NWEA schools in a state to all schools in that state. Weights are attached to each student depending on the SCI decile of the school he attends, and no further distinction is made among students from different states.

The SCI is based on school-level factors. Its aim is to measure the level of challenge a school in a state faces in terms of the socio-economic composition of its student body and as moderated by other related factors such as the ethnic make-up of its students, or the kind of assistance they receive (Title 1), or the environment it operates within (such as whether it is located in a city, rural, or urban area, or whether it is a large school, or whether it serves primarily elementary or middle school children, or if it is a magnet or charter school, etc.). Broadly, the steps for constructing the SCI for a state are:

Step 1: Transformation

The variables in Table 3.1 are first transformed. The general approach is to turn categorical variables into a set of dummy variables. Variables representing counts with known baseline numbers (such as the number of White students in a school) are converted into log-odds, or logit units, and variables showing dramatic skew, such as the number of full-time staff and pupil-teacher ratio, are log transformed. The key variable for the SCI is of course the proportion of students who received free-or-reduced-priced lunch, and it is analyzed in its logit transform as well.

Step 2: Data Completeness

Data within a state are cleaned. Some variables, such as whether a school is a charter school or is a magnet school, are not present in a state. These variables are dropped. In some states, one or several of the available variables may have some missing values. For these states, multiple

imputation is conducted using Markov chain Monte Carlo (MCMC) with multiple chains for arbitrary missing data patterns (as implemented by SAS® PROC MI). The imputation approach applies to all variables without distinguishing their role as predictors or outcomes in subsequent analysis. The number of imputed datasets range from 5 (less than 5% missing), to 7 (5% to less than 10% missing), to 10 (10% to less than 20% missing), to 12 (more than 20% of the data are missing). The approach here represents a rather cautious strategy for the handling of missing data.

Step 3: Estimating the SCI

The SCI model regresses the logit-transformed proportion of free-and-reduced-priced program recipients in a school on the remaining variables, which are treated as predictors. In essence, the predicted values from this model represent the economic challenges faced by a school that are also explained by the other school-level factors spanning the predictor space of the model. It is a view of economic strain seen through a set of similarly compelling factors differentiating the schools. The residual is that portion of the outcome variable not explained by these school-level factors. Post-stratifying on the proportion of students on free-and-reduced-priced lunch is now being replaced by post-stratifying on a variable that is constructed to also take into account the other factors that are correlated with the proportion of students on free-and-reduced-priced lunch measure.

If imputation is not required in a state, the predicted values \hat{x}_j of the regression are normalized to the predicted mean $\hat{\mu}$ and residual standard deviation $\hat{\sigma}$. The normalized predicted values are then re-scaled to give the SCI:

$$SCI = 50 + 21.06 \times \left(\frac{\hat{x}_j - \hat{\mu}}{\hat{\sigma}} \right).$$

The rescaling places the SCI on a scale similar to the normal curve equivalent, or NCE, so that SCI scores typically distributed about a mean of 50 and a standard deviation of 21.06 within a state. Scores typically range from about 0 to about 100. Schools with higher levels on the SCI scale are likely to experience relatively higher levels of economic challenge, as indicated by the mix of factors they operate under.

If a dataset is imputed, the predicted values from a separate regression analysis for each imputed dataset are aggregated via a multi-level model (with predicted scores from each imputation being nested within the school). The school-level predicted values are then treated in a manner similar to the above to produce the state SCI.

Step 4: Results

It should be clear from the above that the SCI from one state may not be compared with that from another state. First, the SCI may be employing a slightly different set of predictor variables from state to state. Second, the inter-correlations among the variables across the states may not be the

same. The result is that the predictors explain the variation in the outcome differently across the states. Therefore, what an SCI means in one state is bound to be slightly different from what the SCI means in another state. The SCI, however, is a very concise and meaningful dimension for post-stratifying the NWEA schools in their respective states.

Constructing Population Weights

Step 1: From SCI Deciles to Post-stratification Weights

Schools are placed into deciles according to their SCI. If P_d^{NWEA} is the proportion of NWEA schools and P_d^{ALL} is the proportion of all schools for a state in decile d , the population weight for an NWEA school j is

$$W_j = \frac{P_d^{\text{ALL}}}{P_d^{\text{NWEA}}}, \text{ if } j \in d.$$

Step 2: Sampling of Students and Analysis Weights

Sampling of students is done for the following reasons. Computational burden is very much reduced and accuracy is not sacrificed with the large pool of students available. Depending on the pool size N_{Total} , a sampling proportion p is determined that would ensure that we have about 20,000 students (un-weighted count) for each analysis. The rule adopted is $p = 20,000/N_{\text{Total}}$ if $N_{\text{Total}} > 20,000$, else $p = 0.8$. Finally, the analysis weight for an student is determined both by the sampling fraction and by the population weights from the post-stratification, or $w_i = \frac{W_j}{p}$.

Illustrative Results

Figure 3.1 illustrated the anticipated impact of post-stratification. First, NWEA MAP users in 2008 are not evenly distributed across the states. For example, only about 11% of schools in Connecticut were MAP users in 2008, while about 97% of schools in South Carolina tested. The SCI regressions are fairly strong in both states. In Connecticut, about 76% of the between-school variance of the transformed free-and-reduced-priced lunch variable is explained by the in-state factors considered. The relationship is equally impressive in South Carolina (about 70%).

Regardless of how the SCI behaved in each state, post-stratification clearly had the anticipated impact. The plot in Figure 3.1 shows the difference in the average SCI with and without applying the population weights. In states where NWEA clients are few in number, it is not uncommon to see some distance between the average SCI of NWEA schools from the average SCI of non-NWEA schools. Weighting by the SCI-based population weights made the two sets of schools essentially comparable. Details on the

decile proportions for the two states are also given in Table 3.2. Table 3.3 shows further details of the impact of post-stratification adjustment on the SCI for these two states.

State	R ²	%NWEA	Weighting		min			max
			Before	After	-0.7058	0	1.5464	
AL	0.64	1.67	0.37	0.05		O	X	
FL	0.58	3.40	0.32	-0.03		O	X	
SD	0.58	3.65	0.27	0.02		O	X	
NY	0.55	3.82	-0.27	0.06	X	O		
WV	0.50	4.02	0.02	-0.07		O X		
OK	0.58	4.46	0.03	0.06		XO		
VA	0.50	4.63	0.04	-0.02		OX		
TX	0.30	4.82	-0.38	-0.01	X	O		
TN	0.63	5.07	-0.36	-0.06	X	O		
MO	0.22	5.14	0.45	0.06		O		X
PA	0.62	6.57	-0.22	-0.01	X	O		
GA	0.58	6.69	0.14	0.01		O X		
NC	0.49	7.52	-0.05	-0.01		@		
LA	0.67	9.24	0.81	0.05		O		X
UT	0.50	9.88	0.29	-0.00		O	X	
OH	0.20	10.90	0.63	0.01		O		X
CT	0.76	11.10	1.55	-0.01		O		X
CA	0.58	11.97	0.04	0.01		@		
MA	0.74	11.98	0.91	0.01		O		X
AZ	0.55	13.16	0.36	-0.00		O	X	
NJ	0.80	14.12	-0.16	-0.03	X	O		
HI	0.56	16.32	0.40	0.00		O		X
AR	0.40	16.70	0.15	0.00		O X		
MI	0.41	17.64	0.21	-0.00		O X		
VT	0.32	18.59	0.03	-0.01		OX		
MD	0.67	19.37	0.15	0.02		O X		
RI	0.85	22.65	0.19	0.02		O X		
OR	0.48	26.03	0.11	-0.00		O X		
IL	0.50	29.52	-0.71	0.01	X	O		
NV	0.74	30.96	0.02	0.01		@		
MS	0.70	33.26	0.20	0.01		O X		
AK	0.53	35.19	0.03	0.01		@		
NE	0.25	38.72	0.07	-0.00		O X		
KY	0.46	40.57	-0.01	-0.00		@		
IA	0.47	47.51	-0.10	0.00		X O		
MT	0.62	51.06	-0.06	-0.01		XO		
WA	0.52	52.46	0.15	0.01		O X		
WI	0.56	57.59	0.13	0.00		O X		
DE	0.57	57.64	0.05	0.03		@		
IN	0.70	62.76	0.00	-0.01		OX		
CO	0.47	63.01	0.02	-0.01		OX		
KS	0.61	67.22	-0.04	-0.00		XO		
NM	0.40	67.27	0.16	0.01		O X		
NH	0.32	75.00	-0.05	-0.01		@		
MN	0.52	77.03	0.04	0.00		@		
ME	0.24	81.37	-0.03	-0.00		XO		
ND	0.43	92.13	-0.03	-0.01		@		
ID	0.45	92.50	0.05	0.00		@		
SC	0.69	96.86	0.02	0.00		@		
WY	0.39	98.49	-0.02	-0.00		@		

Key: R² Adj. R² of linear model.
X Mean difference btw NWEA and non-NWEA schools before weighting.
O Mean difference btw NWEA and non-NWEA schools after weighting.
@ Symbol over-print, X = O.

Figure 3.1. Weighted and un-weighted means for NWEA schools and for all schools in each state.

Table 3.2. Estimated population weights for NWEA schools based on the proportions of NWEA schools in each SCI decile for Connecticut and South Carolina.

Decile	Non-NWEA		NWEA		State		Pop. Weight
	N	%	N	%	N	%	
Connecticut							
1	100	10.406	8	6.667	108	9.991	1.499
2	106	11.030	2	1.667	108	9.991	5.994
3	102	10.614	7	5.833	109	10.083	1.729
4	103	10.718	4	3.333	107	9.898	2.969
5	102	10.614	6	5.000	108	9.991	1.998
6	104	10.822	4	3.333	108	9.991	2.997
7	102	10.614	6	5.000	108	9.991	1.998
8	92	9.573	16	13.333	108	9.991	0.749
9	87	9.053	21	17.500	108	9.991	0.571
10	63	6.556	46	38.333	109	10.083	0.263
South Carolina							
1	7	19.444	107	9.631	114	9.939	1.032
2	6	16.667	110	9.901	116	10.113	1.021
3	7	19.444	108	9.721	115	10.026	1.031
4	4	11.111	109	9.811	113	9.852	1.004
5	2	5.556	114	10.261	116	10.113	0.986
6	1	2.778	114	10.261	115	10.026	0.977
7	4	11.111	109	9.811	113	9.852	1.004
8	3	8.333	113	10.171	116	10.113	0.994
9	1	2.778	113	10.171	114	9.939	0.977
10	1	2.778	114	10.261	115	10.026	0.977

Table 3.3. Distribution of raw SCI index values for Connecticut and South Carolina.

		N	Mean	SD	Min	Max
Connecticut						
NWEA	Un-Weighted	120	0.519	2.026	-4.501	2.864
	Weighted	120	-1.042	1.972	-4.501	2.864
State		1081	-1.027	1.917	-5.543	2.964
South Carolina						
NWEA	Un-Weighted	1111	0.441	0.965	-3.018	3.197
	Weighted	1111	0.425	0.968	-3.018	3.197
State		1147	0.424	0.968	-3.018	3.197

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Chapter 4 - Norms Development Methodology

Describing Achievement Growth over Instructional Time

In NWEA growth norm studies prior to the 2008 study, it was assumed that students who tested on the same testing date, or term, would have had the same amount of instruction. This assumption was initially challenged in the 2008 norms study by using instructional weeks rather than terms as the metric for time between test occasions. However, the 2008 study's use of instructional weeks was limited to the interval between test occasions; it did not consider the instructional time from the beginning of a school year that preceded a test occasion. In the 2008 study as well as in the current study's data, we observed that testing dates relative to the beginning of the school year and between instructional periods can and do vary considerably both within and between terms. We assume that this is the result of schools being able to determine when their students are to be assessed within each term. The analytical challenge comes in accounting for instructional weeks when schools differ in how much instruction precedes a fall test and how much instructional takes place between test occasions. The potential impact on test scores that is due to differences in the amounts of instruction students receive cannot be ignored. Taking the details about a student's instructional and testing calendar into account explicitly would help reduce likely differences in his opportunity-to-learn when his performance is to be compared with that of his peers. For this reason, we introduce a procedure for estimating both status and growth norms based on a multi-level growth model that included instructional time in this norming study.

Instructional and Testing Calendar

A typical instructional and testing time-table for a grade-level is depicted in Figure 4.1. For the analysis, a student is included as long as he has a valid test score. The typical student contributes not only his fall, winter, and spring scores obtained during the focal grade-level to the estimation of his own growth trajectory, but the spring score from his prior grade and his fall score during his next grade are also included. The number of instructional days is determined for each student from additional information we have collected about when the district school-year begins. Instructional calendars for school districts that used MAP tests in the 2009-2010 school year were retrieved from their district websites. The specific data recorded were the first day of school, the last day of school, non-instructional weekdays that fell between the first and the last days of school. These dates were then used to extrapolate back one year and forward one year, to infer the instructional days for those years. It should be noted from Figure 4.1 that instructional time, either in terms of days or weeks, is counted from the beginning of the year *prior* to the focal grade. Where instructional calendars could not be retrieved from a district website, a default "traditional" calendar was used, with an August 31, 2009 starting date; the modal start date of district calendars that were retrieved. If specifics are unavailable for a school or district, an academic year of 180 instructional days is assumed. The default calendar was used for about 28% of districts.

Instructional Term	Previous	Focal Grade			Next		
	Spring	Fall	Winter	Spring	Fall		
Day	0	150	200	270	330	360	380
Week	0	30	40	54	66	72	76

Figure 4.1. Sample Instructional and Testing Calendar

Overview of Analytic Strategy & Illustrative Results

Status and growth norms are estimated for each grade-level and test subject combination listed in Table A.2 using the score histories from a large random sample of students who attended that grade. As an example, Panel (a) in Figure 4.2 shows reading test scores for a large sample of grade 3 students in the 2009-2010 school year. In addition to students' 3rd grade fall, winter, and spring scores, their 2nd grade spring score and their 4th grade fall score are included to strengthen inferences about achievement and growth that are to be made near the beginning and the end of the 3rd grade instructional calendar.

The plot in Panel (a) suggests that the average reading achievement for the cross-section of 3rd graders might be summarized by a cubic function of instructional day. Such a model, however, would over-estimate the precision of its estimates because scores in the analysis are not likely to be independent across students and occasions as the ordinary least squares (OLS) solution would assume. In settings where scores are nested within students and there is substantial variation between student growth trajectories in the population as the sample of student growth curves in Panel (b) of Figure 4.2 indicates, multi-level models provide a more defensible description of the growth of achievement over time (Bryk & Raudenbush, 1987; Goldstein, 1995). Details of a solution using a multi-level growth model, in which observed scores are weighted by their individual standard errors of measurement (SEM), can be found in Appendix D.

Panel (c) of Figure 4.2 shows the result of a third-degree (or cubic) polynomial function of achievement with instructional days, in which the intercept and the linear terms are correlated student random effects estimated using SAS[®] PROC NL MIXED (Pinheiro & Bates, 1995; Wolfinger, 1999; SAS Institute Inc., 2008). The top half of Table 4.1 contains parameter estimates, their standard errors, and the sampling variance-covariance matrix for the conventional form of the multilevel model. Status norms that are conditional on instructional days (or weeks) are derived from these results, as explained in Appendix D. See Appendix D for an explanation of the notation employed in the table.

We found in this study that multi-level models fit the student achievement growth data considered in this report better than an OLS model, although the estimated results from a multi-level growth model, as plotted in Panel (c) of Figure 4.2, are rather similar to those obtained using OLS. The real value of a multi-level model for this application, as compared with OLS, lies in its ability to capture the relationship of “true” growth and “true” initial status in the population of students.

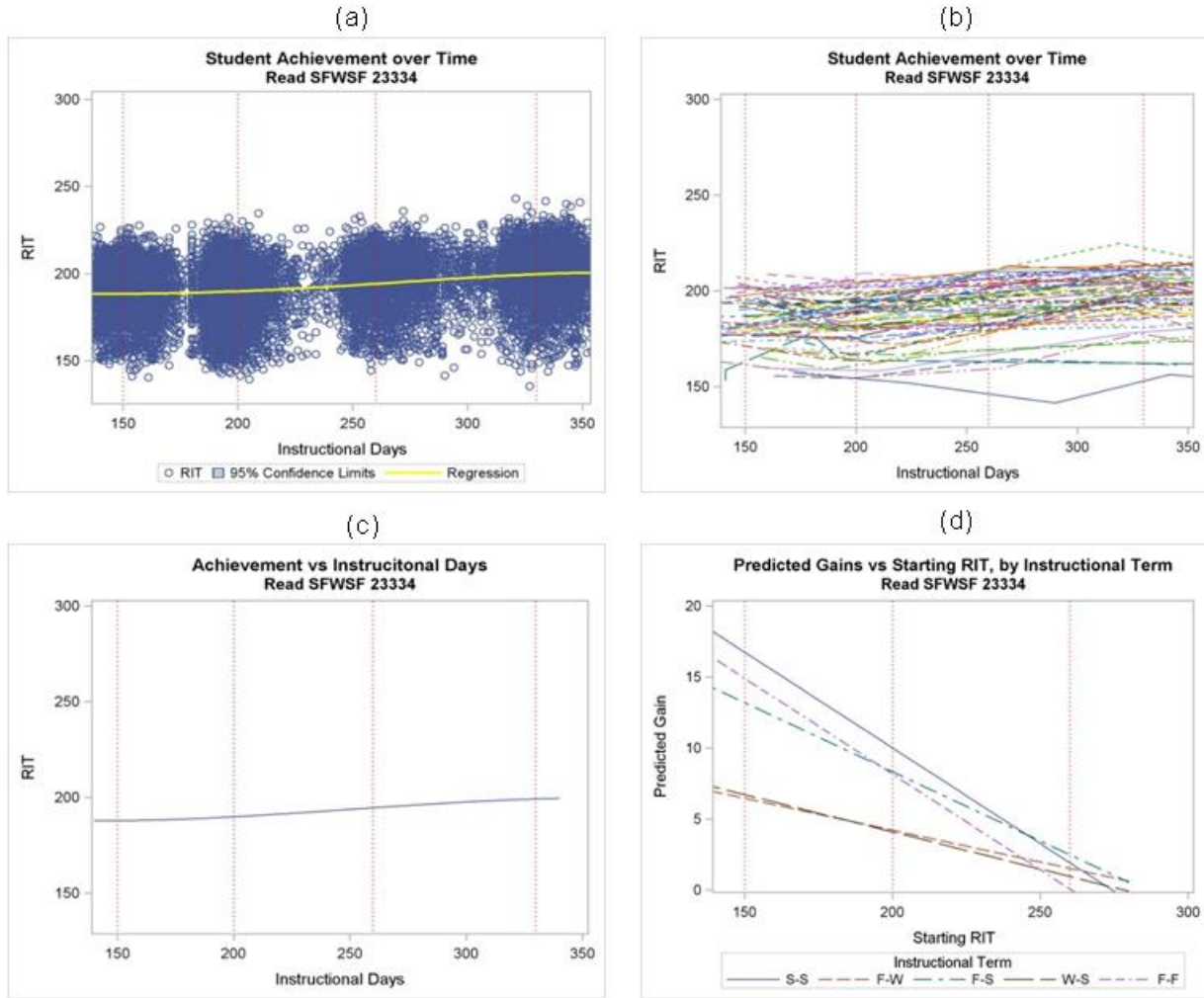


Figure 4.2. Data and results for MAP Reading in focal grade 3

(a) Cross-sectional display of RIT scores by instruction day, (b) Time-series plots for a small representative sample of students attending the focal grade, (c) Predicted status as a function of instructional day, (d) Predicted gains by pre-test RIT levels for spring-spring, fall-winter, fall-spring, winter-spring, and fall-spring pre-post testing periods.

Table 4.1. Pseudo-maximum likelihood estimates for Reading in focal grade 3.

Polynomial Growth Model			Sampling variance-covariance matrix						
Parm	Estimate	s.e.	γ_{00}	γ_{10}	γ_{20}	γ_{30}	τ_{00}	τ_{01}	τ_{11}
γ_{00}	1.90E+02	6.55E-02	4.28E-04	-1.00E-06	-1.11E-07	2.38E-09	1.26E-07	7.20E-07	-9.10E-09
γ_{10}	3.25E-01	1.61E-03	-1.00E-06	2.59E-07	-6.76E-09	3.90E-11	-8.18E-10	-7.76E-08	-1.15E-10
γ_{20}	8.95E-03	1.14E-04	-1.11E-07	-6.76E-09	1.31E-09	-2.95E-11	-4.28E-11	-2.21E-09	1.71E-10
γ_{30}	-3.00E-04	2.80E-06	2.38E-09	3.90E-11	-2.95E-11	7.86E-13	1.04E-12	7.14E-11	-4.31E-12
τ_{00}	2.15E+02	8.20E-05	1.26E-07	-8.18E-10	-4.28E-11	1.04E-12	6.66E-10	1.22E-07	-1.17E-09
τ_{01}	-8.04E-01	1.54E-02	7.20E-07	-7.76E-08	-2.21E-09	7.14E-11	1.22E-07	2.36E-05	-2.27E-07
τ_{11}	3.79E-02	3.57E-04	-9.10E-09	-1.15E-10	1.71E-10	-4.31E-12	-1.17E-09	-2.27E-07	1.27E-08

Latent Variable Regression			γ_{00}	γ_{20}	γ_{30}	a_{10}	a_{11}	τ_{00}	τ_{11}^*
Parm	Estimate	s.e.	γ_{00}	γ_{20}	γ_{30}	a_{10}	a_{11}	τ_{00}	τ_{11}^*
γ_{00}	1.90E+02	6.55E-02	4.28E-04	-1.11E-07	2.38E-09	-1.00E-06	3.35E-09	1.22E-07	-3.72E-09
γ_{20}	8.95E-03	1.14E-04	-1.11E-07	1.31E-09	-2.95E-11	-6.76E-09	-1.03E-11	-3.14E-11	1.54E-10
γ_{30}	-3.00E-04	2.80E-06	2.38E-09	-2.95E-11	7.86E-13	3.90E-11	3.32E-13	6.75E-13	-3.77E-12
a_{10}	3.25E-01	1.61E-03	-1.00E-06	-6.76E-09	3.90E-11	2.59E-07	-3.61E-10	-4.17E-10	-6.96E-10
a_{11}	-3.74E-03	7.10E-05	3.35E-09	-1.03E-11	3.32E-13	-3.61E-10	5.11E-10	9.59E-13	-2.33E-10
τ_{00}	2.15E+02	1.90E-05	1.22E-07	-3.14E-11	6.75E-13	-4.17E-10	9.59E-13	3.45E-11	-9.93E-13
τ_{11}^*	3.49E-02	3.27E-04	-3.72E-09	1.54E-10	-3.77E-12	-6.96E-10	-2.33E-10	-9.93E-13	1.07E-08

In Appendix D, we detail how results from a multi-level model of achievement status over time may also be employed to support inferences about the average growth between any two testing periods. We show that translating the multi-level growth model into the form of its equivalent *latent variable regression* (LVR) model of growth rates on initial achievement status provides a means for formulating *post hoc* hypotheses about the growth between any two testing periods that are also conditional on the true performance status of the student. The analyses also take into account the relative imprecision of test scores.

As illustrated in Panel (d) of Figure 4.2, growth norms for common pre-post testing periods (between any two of the five terms: spring of grade 2, fall of grade 3, winter of grade 3, spring of grade 3, and fall of grade 4), of 3rd graders, conditional on the student “true” initial status, are derived from the parameter estimates, standard errors, and the sampling variance covariance matrix for the LVR solution in Table 4.1 (bottom). Corresponding illustrative displays and results for grade 4 mathematics are also provided in Figure 4.3 and Table 4.2, respectively.

Our approach to estimating conditional growth norms largely avoids many of the concerns scholars have regarding how gains in achievement might be defined, measured, or modeled (Harris, 1963; Good, Biddle, & Brody, 1975; Cronbach & Furby, 1970; Linn & Slinde, 1977; Braun, 1988; Willett, 1988; Seltzer, Frank, & Bryk, 1994; Rogosa, 1995; Williams & Zimmerman, 1996; Mellenbergh, 1999; Thum, 2003; Harris, 2007; Yen, 2007). We have argued, in essence, that we measure achievement status and not growth. Growth is an inference, a result that is based solely on an acceptable descriptive model of change in achievement status over time.

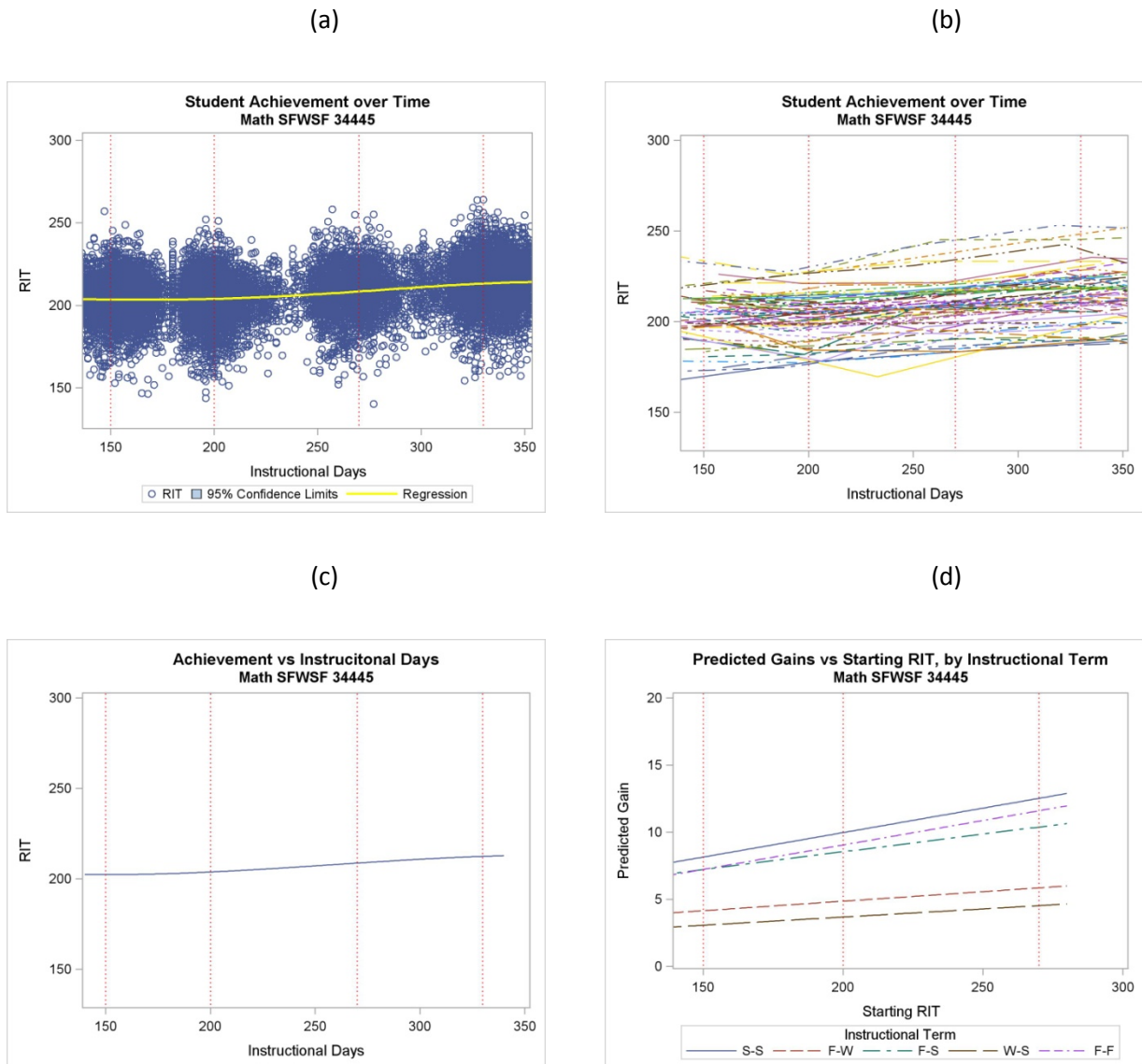


Figure 4.3. Data and results for MAP Mathematics in focal grade 4.

(a) Cross-sectional display of RIT scores by instructional day, (b) Time-series plots for a small representative sample of students attending the focal grade, (c) Predicted status as a function of instructional day, (d) Predicted gains by pre-test RIT levels for spring-spring, fall-winter, fall-spring, winter-spring, and fall-spring pre-post testing periods.

Table 4.2. Pseudo-maximum likelihood estimates for Mathematics in focal grade 4

Polynomial Growth Model			Sampling variance-covariance matrix						
Parm	Estimate	s.e.	γ_{00}	γ_{10}	γ_{20}	γ_{30}	τ_{00}	τ_{01}	τ_{11}
γ_{00}	2.04E+02	5.72E-02	3.28E-04	3.78E-07	-7.48E-08	1.55E-09	1.68E-07	8.76E-07	-5.51E-09
γ_{10}	2.71E-01	1.33E-03	3.78E-07	1.78E-07	-3.85E-09	2.64E-12	1.70E-10	-5.59E-08	-9.41E-10
γ_{20}	9.65E-03	8.90E-05	-7.48E-08	-3.85E-09	8.01E-10	-1.80E-11	-3.91E-11	-2.84E-09	1.77E-10
γ_{30}	-2.80E-04	2.22E-06	1.55E-09	2.64E-12	-1.80E-11	4.92E-13	8.19E-13	8.79E-11	-4.25E-12
τ_{00}	1.63E+02	3.00E-05	1.68E-07	1.70E-10	-3.91E-11	8.19E-13	8.72E-11	5.10E-09	-2.97E-12
τ_{01}	1.65E-01	1.17E-02	8.76E-07	-5.59E-08	-2.84E-09	8.79E-11	5.10E-09	1.36E-05	-6.22E-10
τ_{11}	2.53E-02	2.46E-04	-5.51E-09	-9.41E-10	1.77E-10	-4.25E-12	-2.97E-12	-6.22E-10	6.06E-09
Latent Variable Regression			γ_{00}	γ_{20}	γ_{30}	a_{10}	a_{11}	τ_{00}	τ_{11}^*
γ_{00}	2.04E+02	5.72E-02	3.28E-04	-7.48E-08	1.55E-09	3.78E-07	5.38E-09	1.67E-07	-7.29E-09
γ_{20}	9.65E-03	8.90E-05	-7.48E-08	8.01E-10	-1.80E-11	-3.85E-09	-1.74E-11	-3.81E-11	1.83E-10
γ_{30}	-2.80E-04	2.22E-06	1.55E-09	-1.80E-11	4.92E-13	2.64E-12	5.39E-13	7.88E-13	-4.42E-12
a_{10}	2.71E-01	1.33E-03	3.78E-07	-3.85E-09	2.64E-12	1.78E-07	-3.43E-10	1.89E-10	-8.28E-10
a_{11}	1.01E-03	7.20E-05	5.38E-09	-1.74E-11	5.39E-13	-3.43E-10	5.12E-10	2.75E-12	-1.72E-10
τ_{00}	1.63E+02	2.90E-05	1.67E-07	-3.81E-11	7.88E-13	1.89E-10	2.75E-12	8.53E-11	-3.67E-12
τ_{11}^*	2.51E-02	2.47E-04	-7.29E-09	1.829E-10	-4.42E-12	-8.28E-10	-1.72E-10	-3.67E-12	6.119E-09

Population weights, based on the post-stratification of schools using the School Challenge Index for each state as described earlier, are applied during estimation to improve the representativeness of the state student population by the available sample of NWEA schools in the state. As explained in Chapter 3, these school-level weights are multiplied by the fraction of students randomly sampled from the student pool to obtain the weights for the analysis. These weights are then introduced using the REPLICATE statement in SAS® PROC NL MIXED following Skinner's (1989) *pseudo maximum likelihood* (PML) approach, recommended by Grilli and Pratesi (2004) as a relatively direct and effective means for dealing with informative sampling designs. Note that the model of achievement growth is linear (in the parameters of the model) although a curvilinear function is estimated. A very sizable number of students is also used. Thus possibility that the sampling variance-covariance matrix may not be well estimated for nonlinear models with smallish samples under PML is less of a concern in our application.

Procedural differences for Kindergarten and Grade 11 status norms

Due to structural differences in the data available to develop kindergarten and grade 11 status norms, it was necessary to depart from the above procedures. For kindergarten, the main concern was around estimating status and growth as a function of instructional weeks, particularly where fall and winter term data were involved; actual weeks of instruction for reading and mathematics could not be confidently measured from the data available. Estimates calculated as a function of instructional weeks could be biased with no immediately feasible means of evaluating the nature of the bias.

For grade 11, data concerns revolved around differences in the prevalence of testing grade 11 students compared to those tested in grade 10. In the 2009-2010 academic year, approximately 66% fewer grade 11 students were tested in reading than were tested in grade 10 for the same year. The corresponding percentages for mathematics looked only slightly better at roughly 61% fewer. For both reading and mathematics, the number of schools administering tests in grade 11 dropped by roughly 27% from the grade 10 numbers. The cause of these differences could not be determined but the practice of focusing testing on primarily lower performing students could not be ruled out. As stated earlier, one of the score inclusion criteria was that 75% or more of the students in the grade of a school had to have been tested in the same term. When this criterion is paired with the observation that many RIT scores in the lower half of the grade 11 distributions had a *lower* percentile than in the corresponding grade 10 distributions, we also cannot rule out the possibility that an influentially greater proportion of lower performing schools were represented in the grade 11 sample.

To provide plausible status estimates in these two types of situations, we reverted back to a simpler methodology. For the fall and winter terms of kindergarten, students' observed RIT scores were used without regard to instructional time – the nominal term of testing was used as a proxy. Scores were weighted by the SCI value for the student's school. The same approach was used for all grade 11 scores from reading, language usage, and mathematics tests. A similar approach was used in the 2008 norming study but with a different method of post-stratification (i.e., not SCI-based weighting). The weighted means and standard deviations of these procedures were used to compute percentile ranks using the cumulative distribution function, Φ , in

$$\Phi \left[\frac{RIT_{obs} - \bar{X}_{gl}}{SD_{gl}} \right].$$

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Chapter 5 - Grade Level Status and Growth Norms

The results of this study are found in the tables below. The first five tables, Tables 5.1 – 5.5, present grade level norms for both status and growth. In reviewing these results it is important to keep in mind that the status norms presented here for fall, winter, and spring are estimated for the 4th, 18th, and 28th instructional weeks in the focal grade, respectively. The instructional week values were chosen because they were the most common numbers of instructional weeks observed for tests administered in these terms. However, by virtue of the model used to estimate both status and growth norms, the number of instructional weeks used could be any legitimate value between 1 and 36 instructional weeks in the focal grade.

The fundamental elements of growth norms are presented the remaining tables. For each content area – grade level combination, these tables allow growth estimates to be accessed by referring to the number of instructional weeks that have elapsed prior to an initial test (Start Inst. Wk), the RIT score from that test (Start RIT), and the week that indicates the end of instruction prior to a “posttest” or a planned test (Ending Instructional Week). Using these tables allows growth, given a number of instructional weeks prior to instruction, an initial starting score, and the number of instructional weeks to be used to predict growth or to evaluate growth once a second test is available. As a precaution, each of these tables is long, usually a minimum of three pages. Referring to a table’s title is always a good idea; for these tables it is critical.

Table 5.1. Means and Standard Deviations (sd) of Grade Level Status for READING and Means and Standard Deviations (sd) of Growth to Subsequent Terms Assuming Status Norms as Starting RIT Score

Grade	Fall Status		Growth from Fall to:						N
	Mean	sd	Winter		Spring		Fall of Next Grade		
			Mean	sd	Mean	sd	Mean	sd	
*K	142.5	10.71							54,050
1	160.3	12.76	10.4	5.65	16.6	8.13	15.3	10.50	20,103
2	175.9	15.44	7.8	5.47	13.7	7.70	14.0	9.86	20,280
3	189.9	14.97	4.7	4.80	9.3	6.45	9.5	7.95	20,298
4	199.8	14.30	3.4	4.71	6.8	6.13	6.9	7.46	20,369
5	207.1	14.21	2.7	4.71	5.2	6.13	4.9	7.45	20,263
6	212.3	14.39	2.0	4.71	4.1	6.15	4.1	7.48	20,173
7	216.3	14.23	2.0	4.88	3.4	6.17	3.9	7.52	20,206
8	219.3	14.86	2.0	5.05	3.2	6.63	3.0	8.24	20,373
9	221.4	15.17	2.0	5.40	2.0	7.52	2.2	9.59	20,446
10	223.2	15.30	2.0	6.01	2.0	8.98	2.0	11.75	20,056
*11	223.4	16.93							39,844

Grade	Winter Status		Growth from Winter to:		N
	Mean	sd	Spring		
			Mean	sd	
*K	150.6	11.83			58,032
1	170.7	13.36	6.3	5.32	20,103
2	183.6	14.77	5.4	5.18	20,280
3	194.6	14.50	4.4	4.98	20,298
4	203.2	14.02	3.3	4.87	20,369
5	209.8	14.05	2.4	4.87	20,263
6	214.3	14.31	2.0	4.87	20,173
7	218.2	14.11	2.0	4.72	20,206
8	221.2	14.62	2.0	4.85	20,373
9	221.9	15.29	2.0	5.12	20,446
10	223.4	15.59	2.0	5.60	20,056
**11	223.5	17.16			--

Grade	Spring Status		Growth from Spring to:		N
	Mean	sd	Spring of Next Grade		
			Mean	sd	
K	156.0	12.98	20.9	10.50	20,103
1	176.9	14.64	15.2	9.86	20,103
2	189.6	14.90	11.4	7.95	20,280
3	199.2	14.42	8.3	7.46	20,298
4	206.7	14.08	6.4	7.45	20,369
5	212.3	14.25	4.7	7.48	20,263
6	216.4	14.60	3.7	7.52	20,173
7	219.7	14.34	3.7	8.24	20,206
8	222.4	14.84	2.0	9.59	20,373
9	222.9	15.97	2.0	11.74	20,446
10	223.8	16.72			20,056
*11	223.7	17.38			28,746

* Status means and standard deviations were computed using conventional methods with observations weighted by the School Challenge Index

** Status means and standard deviations we interpolated from fall and spring data.

Table 5.2. Means and Standard Deviations (sd) of Grade Level Status for LANGUAGE USAGE and Means and Standard Deviations (sd) of Growth to Subsequent Terms Assuming Status Norms as Starting RIT Score

Fall Status			Growth from Fall to:						N
Grade	Mean	sd	Winter		Spring		Fall of Next Grade		
			Mean	sd	Mean	sd	Mean	sd	
2	175.4	15.32	9.9	5.44	14.6	7.60	16.1	9.71	20,103
3	191.1	14.62	5.5	5.04	9.2	6.61	9.7	8.20	20,155
4	200.9	14.02	3.5	4.87	6.1	6.14	6.9	7.46	20,233
5	208.0	13.39	3.0	4.87	4.9	6.13	4.9	7.45	20,230
6	212.3	13.18	2.1	4.85	3.9	6.08	4.1	7.38	20,259
7	215.8	13.15	2.0	4.79	2.9	5.93	3.4	7.13	20,279
8	218.7	13.09	2.0	4.89	2.6	6.21	2.6	7.57	20,362
9	220.6	13.23	2.0	5.09	2.0	6.74	2.0	8.40	20,104
10	221.9	13.66	2.0	5.50	2.0	7.76	2.0	9.95	19,960
*11	222.1	14.77							24,602

Winter Status			Growth from Winter to:		N
Grade	Mean	sd	Spring		
			Mean	sd	
2	185.3	14.34	3.9	5.15	20,103
3	196.5	13.96	3.4	4.84	20,155
4	204.4	13.55	2.5	4.71	20,233
5	211.0	13.03	2.0	4.71	20,230
6	214.4	12.97	2.0	4.70	20,259
7	217.3	13.05	2.0	4.65	20,279
8	220.2	12.94	2.0	4.73	20,362
9	221.0	13.25	2.0	4.88	20,104
10	222.2	14.07	2.0	5.20	19,960
**11	222.7	14.93			--

Spring Status			Growth from Spring to:		N
Grade	Mean	sd	Spring of Next Grade		
			Mean	sd	
2	190.0	14.23	11.9	8.20	20,103
3	200.3	13.85	7.7	7.46	20,155
4	207.0	13.50	6.3	7.45	20,233
5	212.9	13.08	4.0	7.38	20,230
6	216.2	13.13	2.9	7.13	20,259
7	218.7	13.27	3.0	7.57	20,279
8	221.3	13.19	2.0	8.40	20,362
9	221.8	13.74	2.0	9.95	20,104
10	222.7	15.08			19,960
*11	223.3	15.77			18,013

* Status means and standard deviations were computed using conventional methods with observations weighted by the School Challenge Index

** Status means and standard deviations we interpolated from fall and spring data.

Table 5.3. Means and Standard Deviations (sd) of Grade Level Status for MATHEMATICS and Means and Standard Deviations (sd) of Growth to Subsequent Terms Assuming Status Norms as Starting RIT Score

Fall Status			Growth from Fall to:						N
Grade	Mean	sd	Winter		Spring		Fall of Next Grade		
			Mean	sd	Mean	sd	Mean	sd	
*K	143.7	11.88							55,388
1	162.8	13.57	9.5	5.02	15.9	6.85	15.3	8.72	20,041
2	178.2	12.97	7.4	5.05	13.2	6.61	14.0	8.21	20,272
3	192.1	12.58	6.4	4.86	11.0	6.10	11.6	7.41	20,294
4	203.8	13.11	4.9	4.79	8.7	5.91	9.2	7.11	20,354
5	212.9	14.18	4.9	4.81	8.1	5.99	7.6	7.22	20,356
6	219.6	15.37	3.2	4.86	6.0	6.11	6.3	7.41	20,312
7	225.6	16.79	2.6	4.84	4.9	6.05	5.6	7.33	20,263
8	230.2	17.04	2.5	4.97	4.3	6.42	4.3	7.90	20,322
9	233.8	17.65	2.0	5.30	2.2	7.27	2.5	9.21	20,259
10	234.2	18.63	2.0	5.57	2.4	7.93	2.8	10.19	20,190
*11	236.0	19.63							38,334

Winter Status			Growth from Winter to:		N
Grade	Mean	sd	Spring		
			Mean	sd	
*K	150.5	12.98			56,989
1	172.4	12.83	5.7	5.02	20,041
2	185.5	12.46	5.4	4.85	20,272
3	198.5	12.61	4.5	4.70	20,294
4	208.7	13.47	3.8	4.65	20,354
5	217.8	14.38	3.3	4.67	20,356
6	222.8	15.58	2.8	4.70	20,312
7	228.2	17.06	2.2	4.69	20,263
8	232.8	17.21	2.0	4.79	20,322
9	234.9	18.01	2.0	5.04	20,259
10	235.5	18.73	2.0	5.25	20,190
**11	237.2	19.81			--

Spring Status			Growth from Spring to:		N
Grade	Mean	sd	Spring of Next Grade		
			Mean	sd	
K	156.1	14.62	24.1	8.72	20,041
1	179.0	12.73	14.7	8.21	20,041
2	191.3	12.54	13.3	7.41	20,272
3	203.1	12.99	10.1	7.11	20,294
4	212.5	14.06	9.5	7.22	20,354
5	221.0	14.83	5.9	7.41	20,356
6	225.6	16.04	5.6	7.33	20,312
7	230.5	17.53	5.2	7.90	20,263
8	234.5	17.66	2.1	9.21	20,322
9	236.0	18.76	2.5	10.19	20,259
10	236.6	19.36			20,190
*11	238.3	20.00			27,560

End-of-Course Tests			N
Grade	Mean	sd	
Alg. 1	240.3	17.24	
Geom.	249.5	17.29	20,005
Alg. 2	249.7	15.98	9,846

* Status means and standard deviations were computed using conventional methods with observations weighted by the School Challenge Index

** Status means and standard deviations were interpolated from fall and spring data.

Table 5.4. Means and Standard Deviations (sd) of Grade Level Status for GENERAL SCIENCE and Means and Standard Deviations (sd) of Growth to Subsequent Terms Assuming Status Norms as Starting RIT Score

Fall Status			Growth from Fall to:						N
Grade	Mean	sd	Winter		Spring		Fall of Next Grade		
			Mean	sd	Mean	sd	Mean	sd	
3	189.0	10.61	3.5	4.67	6.4	5.78	6.8	6.99	20,149
4	196.4	10.44	2.3	4.63	4.4	5.65	5.4	6.78	20,037
5	201.3	10.69	2.5	4.85	4.0	6.10	4.1	7.40	20,112
6	205.4	11.03	2.0	4.65	2.7	5.71	3.1	6.87	19,929
7	208.2	11.42	2.0	4.73	2.7	5.96	3.3	7.29	19,852
8	211.2	11.64	2.0	4.80	2.4	6.17	2.5	7.64	20,139
9	213.2	12.03	2.0	4.79	2.0	6.15	2.0	7.60	20,014
10	214.9	12.55	2.0	4.99	2.0	6.74	2.0	8.93	20,063

Winter Status			Growth from Winter to:		N
Grade	Mean	sd	Spring		
			Mean	sd	
3	192.5	10.29	2.7	4.67	20,149
4	198.7	10.25	2.0	4.63	20,037
5	203.7	10.65	2.0	4.70	20,112
6	206.8	10.85	2.0	4.65	19,929
7	209.5	11.26	2.0	4.73	19,852
8	212.4	11.74	2.0	4.80	20,139
9	213.6	12.18	2.0	4.79	20,014
10	215.6	12.58	2.0	4.99	20,063

Spring Status			Growth from Spring to:		N
Grade	Mean	sd	Spring of Next Grade		
			Mean	sd	
3	195.5	10.36	6.2	7.02	20,149
4	200.8	10.42	5.4	7.40	20,037
5	205.3	11.04	3.4	7.12	20,112
6	208.1	11.02	3.4	7.57	19,929
7	210.9	11.51	3.0	7.95	19,852
8	213.5	12.26	2.0	7.91	20,139
9	214.3	12.71	2.0	8.93	20,014
10	216.2	13.16			20,063

Table 5.5. Means and Standard Deviations (sd) of Grade Level Status for SCIENCE CONCEPTS & PROCESSES and Means and Standard Deviations (sd) of Growth to Subsequent Terms Assuming Status Norms as Starting RIT Score

Grade	Fall Status		Growth from Fall to:						N
	Mean	sd	Winter		Spring		Fall of Next Grade		
			Mean	sd	Mean	sd	Mean	sd	
3	188.0	10.21	3.8	4.68	6.5	5.60	7.3	6.61	20125
4	195.4	9.74	2.2	4.52	4.1	5.26	5.2	6.12	20180
5	200.6	9.69	2.2	4.68	3.7	5.60	4.1	6.60	19917
6	204.6	10.26	2.0	4.59	2.4	5.51	3.0	6.53	19784
7	207.5	10.66	2.0	4.62	2.4	5.60	3.0	6.69	19884
8	210.4	10.75	2.0	4.72	2.0	5.92	2.1	7.23	20160
9	213.2	12.03	2.0	4.79	2.0	6.15	2.0	7.60	20014
10	213.9	11.28	2.0	4.86	2.0	6.35	2.0	8.27	19,975

Grade	Winter Status		Growth from Winter to:		N
	Mean	sd	Spring		
			Mean	sd	
3	191.7	9.74	2.5	4.57	20125
4	197.5	9.62	2.0	4.52	20180
5	202.8	9.74	2.0	4.57	19917
6	205.9	10.23	2.0	4.59	19784
7	208.7	10.53	2.0	4.62	19884
8	211.5	10.74	2.0	4.72	20160
9	213.6	12.18	2.0	4.79	20014
10	214.3	11.43	2.0	4.86	19,975

Grade	Spring Status		Growth from Spring to:		N
	Mean	sd	Spring of Next Grade		
			Mean	sd	
3	194.5	9.69	5.8	6.30	20125
4	199.5	9.76	5.1	6.60	20180
5	204.3	10.09	3.3	6.76	19917
6	207.1	10.49	3.2	6.93	19784
7	209.9	10.73	3.0	7.51	19884
8	212.4	11.14	2.0	7.91	20160
9	214.3	12.71	2.0	8.27	20014
10	214.6	12.06			19,975

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Appendix A - Test Record Pools by Content Area, Grade Level and State for Fall, 2009 and Spring, 2010

Table A.1. Fall 2009 READING Test Events Pool by State by Grade

State	Student Test Events											Total	% K-10 State Enrlmt	% of State Schls
	K	1	2	3	4	5	6	7	8	9	10			
AK	567	1,168	1,529	1,610	1,606	1,530	1,541	1,585	1,702	1,502	1,054	15,394	14.0	2.0
AL	0	82	68	61	78	65	78	0	0	0	0	432	0.1	0.2
AR	136	399	2,293	2,303	2,199	2,078	1,893	1,769	1,198	791	710	15,769	3.8	1.0
AZ	128	659	3,297	3,530	3,355	3,391	3,219	3,003	3,031	1,361	651	25,625	2.7	3.4
CA	2,504	3,941	12,617	14,087	14,796	14,458	13,095	10,890	10,532	3,491	2,265	102,676	1.9	1.3
CO	2,502	7,051	18,496	21,860	20,769	20,346	18,280	16,843	15,574	12,261	10,777	164,759	23.4	18.1
CT	101	458	291	560	557	610	538	554	515	379	530	5,093	1.1	1.2
DC	38	46	39	0	0	0	100	128	61	0	0	412	0.7	0.5
DE	830	1,481	4,999	4,917	4,848	4,709	5,024	4,893	4,893	4,255	3,465	44,314	41.3	27.4
FL	163	166	169	235	294	234	88	228	155	39	82	1,853	0.1	0.1
GA	1,294	1,553	1,622	2,375	2,191	2,330	2,197	2,097	2,042	357	254	18,312	1.3	1.4
HI	206	256	343	451	491	541	504	415	434	397	461	4,499	2.9	2.8
IA	998	1,654	4,282	10,215	10,449	9,948	10,064	10,720	10,774	8,293	8,312	85,709	21.1	28.7
ID	0	1	71	2,755	2,803	2,716	2,584	2,461	2,722	0	0	16,113	6.8	0.8
IL	3,262	8,599	30,381	39,527	40,142	39,667	43,624	44,637	44,649	16,460	10,101	321,049	17.6	20.9
IN	7,274	12,551	21,804	21,208	20,747	20,365	20,043	18,996	19,069	16,383	8,084	186,524	20.8	16.7
KS	3,712	6,594	13,227	22,653	23,031	22,260	21,988	21,618	22,472	20,993	14,023	192,571	47.6	31.6
KY	7,017	10,727	13,557	14,520	14,671	14,552	14,422	13,600	13,982	11,586	8,753	137,387	23.7	12.6
LA	0	1	291	285	293	280	236	312	340	0	0	2,038	0.3	0.1
MA	188	1,740	4,680	4,936	5,098	5,051	4,771	4,535	4,442	3,516	2,685	41,642	5.1	11.1
MD	0	66	87	9,867	10,086	9,878	9,993	10,146	10,495	2,184	1,524	64,326	8.9	6.8
ME	94	906	3,603	7,912	8,064	8,810	7,799	7,945	7,572	6,888	3,990	63,583	40.1	9.1
MI	670	3,186	8,241	8,975	9,147	9,403	9,527	9,396	9,376	6,319	4,302	78,542	5.7	3.6
MN	5,908	14,481	44,099	47,483	47,177	46,874	46,157	44,530	40,231	23,871	13,383	374,194	54.3	30.7
MO	122	761	2,469	2,007	1,817	1,702	1,812	1,433	1,279	1,011	817	15,230	1.9	4.3
MS	2,603	2,852	3,879	5,726	6,981	6,839	6,217	5,909	5,819	4,273	3,126	54,224	12.5	2.6
MT	1,237	1,912	3,293	6,339	6,099	6,383	6,510	5,615	5,175	3,722	2,774	49,059	41.0	15.0
NC	1,094	1,495	1,996	2,130	2,163	2,072	3,055	2,988	2,835	198	82	20,108	1.6	2.5
ND	1,442	2,603	5,597	5,921	5,664	5,911	5,161	5,447	5,338	6,204	5,461	54,749	68.9	23.5
NE	581	771	2,485	3,758	3,768	3,598	3,441	3,418	3,328	1,973	1,649	28,770	11.6	19.1
NH	563	2,818	4,850	6,564	6,361	5,856	6,538	6,220	5,560	3,243	2,240	50,813	30.5	5.1
NJ	2,601	4,282	6,873	8,555	8,574	9,155	8,836	7,002	6,610	1,615	1,531	65,634	5.5	12.3
NM	3,133	5,350	8,843	11,765	11,763	11,772	12,511	12,011	12,054	11,737	10,004	110,943	38.7	4.2
NV	1,818	3,086	3,507	3,677	3,693	3,605	3,594	3,475	3,587	3,147	1,995	35,184	9.2	2.8
NY	93	563	1,382	1,741	1,946	2,172	3,926	2,593	2,569	1,278	593	18,856	0.8	7.0
OH	1,170	2,480	6,002	3,831	3,417	4,231	5,952	5,929	5,681	7,350	5,194	51,237	3.3	3.8
OK	628	568	755	1,205	1,209	1,164	1,170	1,157	411	64	189	8,520	1.5	1.0
OR	141	308	435	1,343	1,316	1,310	1,328	1,397	1,312	962	293	10,145	2.2	2.5
PA	1,581	3,285	4,013	3,859	4,013	4,307	4,355	5,239	4,284	4,323	4,171	43,430	2.9	1.4
RI	0	1	1,102	1,019	1,260	1,449	1,938	1,782	2,041	2,278	826	13,696	11.2	7.7
SC	8,139	24,045	51,181	53,445	53,547	51,874	51,444	50,562	49,503	33,837	13,288	440,865	70.2	43.2
SD	0	31	18	20	26	31	24	13	6	0	0	169	0.2	0.5
TN	127	141	118	184	251	231	238	246	255	311	173	2,275	0.3	0.4
TX	4,124	4,781	8,693	8,760	8,656	9,200	7,870	7,214	6,976	1,898	1,386	69,558	1.7	1.1
UT	866	1,867	1,923	1,957	1,834	1,880	1,869	1,914	1,867	1,270	792	18,039	3.7	3.4
VA	121	238	346	1,031	776	686	1,572	1,557	1,519	798	5	8,649	0.8	3.2
VT	44	218	281	426	362	495	657	548	444	443	437	4,355	5.8	0.9
WA	3,069	6,057	12,618	21,518	22,946	23,304	23,922	24,101	23,324	18,798	8,951	188,608	21.5	13.8
WI	2,754	8,177	17,496	21,052	21,087	21,719	23,189	22,975	21,661	15,866	6,936	182,912	25.0	50.1
WV	101	162	186	142	166	116	127	143	163	0	0	1,306	0.5	0.2
WY	2,486	3,612	5,448	5,630	5,568	5,825	6,036	5,875	5,804	4,892	4,360	55,536	74.5	34.9
Total	78,230	160,230	345,875	425,930	428,155	426,983	431,057	418,064	405,666	272,817	172,679	3,565,686	8.5	6.4

Table A.2. Spring 2010 READING Events Pool by State by Grade

State	Student Test Events											Total	% K-10 State Enrlmt	% of State Schls
	Grade													
	K	1	2	3	4	5	6	7	8	9	10			
AK	776	1,349	1,558	1,715	1,736	1,660	1,695	1,739	1,750	1,549	1,029	16,556	15.1	3.4
AL	84	79	0	0	0	0	0	0	0	0	0	163	0.0	0.2
AR	141	567	2,656	2,826	2,657	2,533	2,502	2,102	1,413	1,100	1,246	19,743	4.8	1.9
AZ	309	1,535	2,187	3,604	3,508	3,337	2,943	2,845	2,856	1,198	679	25,001	2.7	4.0
CA	2,787	4,256	10,454	12,602	13,350	13,467	10,589	8,872	9,389	3,767	2,538	92,071	1.7	1.6
CO	3,961	8,169	19,418	22,624	22,365	21,550	19,207	17,394	17,047	11,998	10,789	174,522	24.8	21.8
CT	323	594	306	550	422	468	291	144	123	699	321	4,241	0.9	0.8
DC	38	37	0	0	0	84	124	101	81	0	0	465	0.8	0.5
DE	835	1,374	4,185	4,458	4,511	4,357	4,285	4,023	3,990	2,496	1,930	36,444	34.0	21.4
FL	169	162	161	178	183	184	41	129	55	44	30	1,336	0.1	0.1
GA	1,180	1,367	1,197	2,189	2,062	2,190	2,605	2,665	2,680	208	163	18,506	1.3	0.8
HI	370	396	373	446	469	524	191	140	152	334	29	3,424	2.2	2.4
IA	1,367	1,865	4,589	10,593	10,860	10,513	10,414	11,180	11,203	8,423	8,241	89,248	21.9	37.2
ID	20	52	45	204	182	150	40	218	94	64	41	1,110	0.5	0.3
IL	6,285	10,807	30,528	41,679	43,434	43,589	46,214	47,203	44,447	15,759	9,754	339,699	18.6	25.9
IN	10,125	14,521	19,847	22,345	21,569	21,500	20,638	19,649	19,825	15,057	6,554	191,630	21.4	21.1
KS	5,846	7,005	11,046	19,186	19,526	18,502	18,611	18,167	18,710	13,447	8,901	158,947	39.2	26.2
KY	10,654	11,661	12,382	15,040	14,883	14,929	14,646	13,869	13,896	11,272	7,662	140,894	24.3	13.2
LA	258	268	277	278	291	261	255	277	308	0	0	2,473	0.4	0.6
MA	1,577	1,906	4,414	5,196	5,396	5,414	4,998	4,793	3,928	2,281	1,006	40,909	5.0	11.1
MD	0	71	83	9,941	10,110	9,939	10,060	10,130	10,336	807	543	62,020	8.6	6.1
ME	563	1,216	3,350	9,162	9,884	10,576	11,021	11,392	11,252	7,788	4,908	81,112	51.2	11.9
MI	4,342	6,211	9,576	12,445	12,790	13,073	13,204	12,724	12,106	6,335	4,076	106,882	7.8	6.5
MN	10,698	16,396	41,634	48,334	48,550	48,210	47,023	44,958	38,571	21,008	11,288	376,670	54.6	28.3
MO	666	1,154	2,294	1,793	1,447	1,412	1,490	885	769	757	587	13,254	1.7	3.1
MS	2,906	2,970	3,442	6,048	7,449	7,281	6,625	6,424	6,184	4,101	3,193	56,623	13.1	3.6
MT	1,902	2,298	3,180	6,376	6,199	6,797	6,994	6,990	6,290	3,815	2,824	53,665	44.9	19.2
NC	1,411	1,513	1,674	2,001	1,997	1,844	2,181	2,050	1,196	164	77	16,108	1.3	2.6
ND	3,034	3,532	5,604	6,756	6,574	6,921	6,959	7,161	7,195	7,195	6,838	67,769	85.3	33.2
NE	769	1,113	2,185	4,133	4,201	4,031	3,833	3,634	3,442	2,017	1,776	31,134	12.6	23.6
NH	1,041	3,146	6,107	9,000	9,286	9,648	10,968	10,724	9,438	6,003	4,511	79,872	48.0	7.7
NJ	3,298	5,116	5,475	8,913	8,987	9,706	9,150	6,816	5,793	1,728	1,712	66,694	5.6	13.2
NM	4,562	6,084	8,569	12,415	12,153	12,272	12,612	12,197	11,968	11,065	9,074	112,971	39.4	5.1
NV	2,711	3,439	3,303	3,724	3,854	3,661	3,397	3,130	2,873	2,778	1,477	34,347	8.9	1.9
NY	467	694	1,060	1,863	2,596	3,032	3,335	2,195	2,188	1,280	553	19,263	0.8	12.8
OH	1,863	2,388	2,561	3,658	3,308	3,423	4,110	4,185	3,717	6,721	2,368	38,302	2.5	2.7
OK	882	928	543	1,388	1,451	1,375	1,174	952	378	68	165	9,304	1.7	1.1
OR	135	309	686	786	733	729	434	577	458	387	172	5,406	1.2	2.5
PA	2,532	3,300	2,426	3,913	4,081	4,487	4,366	5,047	4,428	4,162	3,588	42,330	2.8	2.2
RI	10	77	1,069	1,108	1,384	1,588	2,033	1,808	2,023	2,097	619	13,816	11.3	7.4
SC	13,223	29,624	48,792	52,166	52,170	50,285	49,399	48,192	45,424	28,598	8,488	426,361	67.9	48.0
SD	31	44	20	22	36	28	0	0	0	32	30	243	0.2	0.3
TN	130	259	240	242	273	292	144	172	157	72	54	2,035	0.2	0.2
TX	4,814	5,318	3,913	8,375	8,269	8,756	10,633	10,926	10,219	1,601	960	73,784	1.8	1.2
UT	1,304	1,960	146	257	277	288	191	0	0	0	1	4,424	0.9	1.6
VA	444	497	1,170	1,030	762	659	1,443	1,432	1,403	469	37	9,346	0.9	5.4
VT	103	271	225	475	422	471	723	800	757	547	594	5,388	7.2	1.2
WA	5,820	7,032	13,910	22,418	23,802	24,413	25,262	25,503	24,304	19,127	8,195	199,786	22.8	17.0
WI	7,084	9,833	17,545	23,881	24,426	25,412	27,808	27,474	26,960	17,462	7,238	215,123	29.4	59.2
WV	164	150	41	146	168	79	59	67	16	0	0	890	0.4	0.1
WY	3,880	4,004	5,260	6,280	6,261	6,362	6,460	6,256	6,237	5,210	4,459	60,669	81.40	51.2
Total	127,894	188,917	321,706	434,762	441,304	442,262	443,380	430,311	408,029	253,090	151,318	3,581,414	8.5	7.2

Table A.3. Fall 2009 LANGUAGE USAGE Test Events Pool by State by Grade

State	Student Test Events									Total	% K-10 State Enrlmt	% of State Schls
	Grade											
	2	3	4	5	6	7	8	9	10			
AK	1,290	1,498	1,485	1,449	1,537	1,594	1,685	1,438	1,010	12,986	11.8	2.8
AL	0	61	82	59	71	0	0	0	0	273	0.0	0.2
AR	1,684	2,055	1,957	1,861	1,669	1,494	921	312	317	12,270	3.0	0.7
AZ	703	1,505	1,380	1,555	2,459	2,330	2,340	354	311	12,937	1.4	3.3
CA	10,375	12,282	13,155	12,691	10,087	8,788	8,431	1,352	969	78,130	1.5	1.4
CO	10,048	13,659	13,029	12,813	11,518	10,816	10,610	8,153	7,191	97,837	13.9	13.7
CT	115	531	519	566	430	409	365	260	426	3,621	0.8	0.9
DC	0	0	0	0	104	127	60	0	0	291	0.5	0.5
DE	77	75	75	79	255	242	248	343	325	1,719	1.6	2.8
FL	26	59	175	97	46	54	103	1	0	561	0.0	0.1
GA	1,316	2,336	2,151	2,284	1,941	1,738	1,822	341	247	14,176	1.0	0.9
HI	35	144	163	151	104	11	3	4	0	615	0.4	0.7
IA	717	5,538	5,658	5,640	6,358	5,849	6,260	6,087	5,639	47,746	11.7	19.9
ID	85	932	1,021	1,129	25	15	49	0	0	3,256	1.4	0.5
IL	7,359	14,284	14,020	14,338	15,401	16,322	17,290	6,215	4,488	109,717	6.0	10.8
IN	15,304	18,259	17,825	17,260	17,052	17,533	17,624	13,556	6,497	140,910	15.7	15.2
KS	2,724	4,864	5,007	5,170	5,262	5,601	6,156	4,962	4,642	44,388	11.0	14.1
KY	6,054	9,021	9,511	10,275	9,631	8,931	9,003	5,581	4,077	72,084	12.4	10.7
LA	0	0	0	0	0	0	0	0	0	0	0.0	0.0
MA	1,016	1,218	964	1,097	629	1,003	896	600	645	8,068	1.0	4.8
MD	0	40	61	46	44	39	35	0	0	265	0.0	0.1
ME	1,182	2,123	2,352	2,752	2,679	2,922	2,787	2,356	1,353	20,506	12.9	4.7
MI	4,513	5,279	5,251	5,365	6,804	6,489	6,230	4,741	3,432	48,104	3.5	2.8
MN	7,268	10,420	10,014	10,882	10,788	10,469	8,427	6,193	2,645	77,106	11.2	10.2
MO	896	1,650	1,441	1,335	1,679	1,371	1,201	829	676	11,078	1.4	2.6
MS	3,147	5,703	6,850	6,750	6,178	5,914	5,897	3,973	2,646	47,058	10.9	2.1
MT	988	4,667	4,602	4,890	4,610	3,117	2,960	2,069	1,526	29,429	24.6	14.0
NC	665	891	849	814	931	953	781	194	81	6,159	0.5	1.5
ND	2,344	3,846	3,867	4,271	3,905	3,947	3,919	4,225	4,196	34,520	43.5	19.2
NE	1,072	3,223	3,232	3,034	2,916	2,814	2,732	1,590	1,262	21,875	8.8	17.9
NH	1,548	3,226	3,237	3,202	2,357	2,778	2,731	2,165	1,575	22,819	13.7	2.6
NJ	1,386	3,383	3,291	3,607	3,451	2,809	2,642	972	872	22,413	1.9	6.4
NM	3,564	7,159	6,936	6,997	6,408	6,103	6,390	7,301	6,411	57,269	20.0	3.1
NV	1,254	1,965	2,170	2,040	1,904	1,958	1,965	1,482	598	15,336	4.0	2.4
NY	565	786	960	953	1,163	1,102	985	474	131	7,119	0.3	3.0
OH	266	1,147	982	1,320	1,040	909	1,232	2,223	1,493	10,612	0.7	1.2
OK	220	287	316	285	253	252	261	62	188	2,124	0.4	0.3
OR	83	233	237	236	203	164	179	432	179	1,946	0.4	1.3
PA	18	62	112	231	70	452	594	409	394	2,342	0.2	0.6
RI	365	325	677	572	635	613	683	799	438	5,107	4.2	3.5
SC	27,627	31,022	30,606	29,814	32,043	31,964	31,524	16,373	6,134	237,107	37.8	34.4
SD	0	0	0	0	0	0	0	0	0	0	0.0	0.0
TN	110	214	246	241	236	245	244	193	150	1,879	0.2	0.3
TX	581	5,158	5,299	5,526	1,846	1,439	879	560	483	21,771	0.5	0.8
UT	1,753	1,920	1,786	1,850	1,794	1,856	1,739	1,211	803	14,712	3.0	4.3
VA	187	688	689	658	1,276	1,513	1,290	625	3	6,929	0.7	1.6
VT	202	375	355	481	644	576	447	461	421	3,962	5.3	0.9
WA	564	1,510	1,654	1,668	1,748	2,531	2,571	2,970	1,248	16,464	1.9	3.7
WI	6,253	9,824	9,995	10,111	13,160	13,471	12,742	7,624	4,769	87,949	12.0	28.6
WV	53	123	122	81	69	85	85	0	0	618	0.3	0.2
WY	2,628	4,121	4,291	4,629	4,755	4,661	4,626	4,110	3,323	37,144	49.8	28.6
Total	130,230	199,691	200,657	203,155	200,168	196,373	192,644	126,175	84,214	1,533,307	3.6	3.9

Table A.4. Spring 2010 LANGUAGE USAGE Test Events Pool by State by Grade

State	Student Test Events										% K-10 State Enrlmt	% of State Schls
	Grade											
	2	3	4	5	6	7	8	9	10	Total		
AK	1,419	1,593	1,630	1,531	1,707	1,650	1,734	1,426	993	13,683	12.5	2.5
AR	1,669	2,051	1,963	1,835	1,620	1,252	681	504	535	12,110	1.9	5.1
AZ	721	1,329	1,139	1,318	1,031	923	850	493	424	8,228	2.0	0.9
CA	8,798	10,569	11,312	10,738	7,559	7,019	6,581	1,555	1,232	65,363	7.0	10.5
CO	11,412	14,357	14,147	13,785	11,987	11,129	11,006	7,538	6,972	102,333	1.9	3.0
CT	130	346	349	259	146	99	93	480	225	2,127	0.3	0.4
DC	0	0	0	11	106	102	80	0	0	299	0.1	0.1
DE	82	75	74	80	251	233	244	344	342	1,725	2.8	3.3
FL	23	1	50	3	0	2	43	1	22	145	0.1	1.4
GA	1,130	2,124	2,000	2,126	1,914	1,755	1,757	304	230	13,340	0.6	0.5
HI	42	109	123	116	76	11	37	36	27	577	0.0	0.2
IA	1,717	5,540	5,751	5,602	6,382	6,050	6,352	6,066	5,469	48,929	31.4	59.7
ID	23	42	1	0	10	125	8	0	0	209	0.1	0.1
IL	7,909	13,688	14,672	14,280	14,769	15,691	15,482	6,352	4,335	107,178	45.5	5.0
IN	16,529	18,884	18,293	17,910	17,224	17,571	17,638	11,685	5,465	141,199	7.7	13.9
KS	2,634	3,510	3,507	3,386	3,623	3,530	3,827	3,108	2,446	29,571	3.3	7.8
KY	5,533	7,503	7,818	7,991	6,094	5,373	6,093	5,054	3,676	55,135	13.6	8.3
MA	1,009	1,138	890	1,019	477	406	422	103	10	5,474	0.9	1.5
MD	15	35	32	7	47	39	34	0	0	209	0.0	0.1
ME	1,606	2,862	3,189	3,580	4,370	4,746	4,403	2,768	1,746	29,270	3.6	17.0
MI	5,435	7,563	7,516	7,930	9,173	8,715	8,174	4,166	2,915	61,587	8.6	11.0
MN	6,905	8,909	8,510	9,465	7,479	7,916	6,155	4,487	2,329	62,155	39.2	11.2
MO	1,978	1,538	1,237	1,202	1,346	827	683	641	530	9,982	0.7	0.8
MS	3,461	5,881	7,401	7,224	6,629	6,366	6,202	4,307	3,063	50,534	7.3	4.3
MT	1,286	4,658	4,478	4,927	4,626	4,304	4,184	2,413	1,689	32,565	4.2	12.3
NC	555	733	684	662	647	629	553	162	77	4,702	1.1	0.4
ND	3,509	4,593	4,658	5,048	4,452	4,457	4,607	4,555	4,742	40,621	34.0	20.5
NE	1,616	3,595	3,611	3,476	3,225	3,042	2,906	1,729	1,492	24,692	1.9	10.6
NH	2,858	4,614	4,842	5,617	6,401	6,268	6,177	3,933	3,077	43,787	55.1	23.3
NJ	1,497	3,174	3,295	3,416	3,305	2,670	1,938	814	788	20,897	8.4	11.3
NM	4,158	7,299	7,006	7,057	6,624	6,216	5,920	6,789	5,882	56,951	34.2	6.0
NV	1,287	1,986	2,111	1,990	1,878	1,663	1,603	1,320	637	14,475	1.2	4.4
NY	550	725	785	863	695	720	594	521	107	5,560	1.9	0.4
OH	220	831	688	1,038	594	460	394	1,698	1,126	7,049	1.8	1.5
OK	340	498	522	460	373	260	259	58	60	2,830	0.1	1.9
OR	81	162	132	98	102	59	76	331	101	1,142	0.1	0.4
PA	35	97	154	285	85	311	435	275	41	1,718	0.3	1.1
RI	364	383	727	624	640	632	592	537	218	4,717	1.0	1.0
SC	25,099	27,186	26,113	26,072	28,295	28,058	25,752	15,058	4,120	205,753	13.8	10.5
SD	0	0	0	1	0	0	0	32	30	63	0.1	0.6
TN	109	127	152	153	134	161	157	75	51	1,119	0.2	0.3
TX	843	5,116	5,245	5,349	3,042	2,424	1,515	1,323	1,065	25,922	24.0	9.9
UT	26	82	172	144	9	0	0	0	0	433	0.1	0.2
VA	996	696	666	661	1,129	1,074	873	509	55	6,659	0.2	0.2
VT	225	454	414	462	710	683	629	470	495	4,542	0.9	1.9
WA	565	1,238	1,374	1,188	1,779	1,736	1,527	2,390	1,571	13,368	1.3	25.3
WI	8,583	11,877	12,467	13,380	17,059	17,622	16,674	8,573	5,088	111,323	148.3	15.4
WV	0	103	94	12	11	11	14	0	0	245	0.0	0.0
WY	3,650	4,121	4,263	4,744	5,038	4,802	4,743	4,084	3,352	38,797	5.3	15.5
Total	138,632	193,995	196,257	199,125	194,873	189,792	180,701	119,067	78,850	1,491,292	3.6	4.2

Table A.5. Fall 2009 MATHEMATICS Test Events Pool by State by Grade

State	Student Test Events											Total	% K-10 State Enrlmt	% of State Schls
	Grade													
	K	1	2	3	4	5	6	7	8	9	10			
AK	506	1,114	1,414	1,577	1,579	1,503	1,530	1,585	1,683	1,413	775	14,679	13.4	2.4
AL	0	167	152	135	151	149	173	0	0	0	0	927	0.1	0.4
AR	132	397	2,214	2,289	2,199	2,087	1,898	1,774	1,214	604	486	15,294	3.7	1.3
AZ	122	1,896	3,225	3,493	3,367	3,393	3,183	2,968	3,023	1,148	665	26,483	2.8	3.8
CA	2,501	3,881	9,769	11,728	12,520	12,014	11,325	8,459	7,317	3,029	2,429	84,972	1.6	1.5
CO	2,619	7,158	17,922	21,665	20,651	20,161	18,461	17,167	15,588	12,276	10,279	163,947	23.3	18.8
CT	99	448	286	552	550	585	539	529	485	331	493	4,897	1.0	1.2
DC	158	112	104	60	0	0	104	127	62	0	0	727	1.2	0.5
DE	690	1,383	4,828	4,873	4,774	4,681	5,002	4,874	4,779	4,379	3,438	43,701	40.8	27.9
FL	155	159	217	336	392	283	160	130	115	95	250	2,292	0.1	0.2
GA	1,342	1,547	1,591	2,359	2,197	2,337	2,182	2,016	2,038	350	253	18,212	1.3	1.2
HI	214	294	385	501	485	547	492	405	447	367	418	4,555	2.9	3.1
IA	991	1,541	4,183	10,009	10,221	9,926	10,040	10,587	10,525	7,897	8,036	83,956	20.6	28.6
ID	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
IL	3,037	8,252	30,436	39,959	40,780	40,243	43,236	43,749	42,790	14,240	9,216	315,938	17.3	22.4
IN	7,305	13,664	21,208	20,999	20,687	20,213	19,812	18,673	18,678	13,338	5,443	180,020	20.1	16.6
KS	3,897	6,823	13,328	22,474	23,062	22,348	21,958	21,394	22,263	20,533	13,211	191,291	47.2	31.8
KY	7,089	10,814	13,593	14,622	14,570	14,465	14,346	13,461	13,723	10,991	8,342	136,016	23.5	12.7
LA	0	2	290	280	295	285	235	304	332	0	0	2,023	0.3	0.1
MA	15	1,498	4,355	4,887	5,072	4,941	4,794	4,442	4,377	3,394	2,509	40,284	4.9	11.5
MD	0	55	66	66	67	55	193	191	103	0	0	796	0.1	0.1
ME	97	924	3,826	7,871	8,093	8,685	7,826	7,672	7,358	6,271	3,923	62,546	39.5	9.2
MI	652	3,134	7,837	8,788	9,011	9,220	9,133	9,082	8,898	5,854	3,966	75,575	5.5	3.2
MN	5,973	14,801	43,441	46,989	47,033	46,678	46,033	44,097	39,777	23,219	12,715	370,756	53.8	29.3
MO	106	783	2,287	2,036	1,823	1,677	1,863	1,434	1,246	822	606	14,683	1.9	4.0
MS	2,456	2,773	3,819	5,632	6,896	6,701	6,191	5,817	5,708	3,806	2,234	52,033	12.0	2.5
MT	1,249	1,918	3,219	5,441	6,158	6,442	6,571	5,638	5,312	3,973	3,190	49,111	41.1	13.1
NC	1,088	1,511	1,987	2,196	2,128	2,115	3,085	2,942	2,748	152	4	19,956	1.6	2.4
ND	1,411	2,673	5,468	5,885	5,597	5,902	5,363	5,361	5,325	5,679	4,900	53,564	67.4	23.8
NE	540	765	2,471	3,751	3,765	3,574	3,404	3,406	3,281	1,955	1,594	28,506	11.5	18.9
NH	579	2,689	4,806	6,655	6,541	6,015	6,601	6,178	5,572	3,113	2,429	51,178	30.7	4.7
NJ	2,610	4,240	6,868	8,391	8,531	9,199	8,834	6,964	6,593	1,897	1,756	65,883	5.6	13.9
NM	4,390	5,383	8,882	11,714	11,685	11,749	12,413	12,152	11,924	11,522	9,958	111,772	39.0	4.5
NV	1,793	3,096	3,340	3,673	3,684	3,587	3,618	3,509	3,616	3,325	2,090	35,331	9.2	2.4
NY	95	1,055	1,879	2,150	2,338	3,052	4,191	3,132	2,944	1,395	497	22,728	1.0	8.5
OH	1,088	2,474	5,848	3,829	3,432	4,205	5,852	5,633	5,568	6,602	4,454	48,985	3.2	4.2
OK	623	568	740	1,193	1,210	1,164	1,182	1,139	411	61	77	8,368	1.5	0.9
OR	145	272	416	1,240	1,257	1,297	1,319	1,280	1,275	885	277	9,663	2.1	3.0
PA	1,566	3,631	4,389	3,904	4,074	4,367	4,350	5,222	4,209	4,490	4,207	44,409	3.0	2.0
RI	0	1	1,058	1,004	1,253	1,423	1,934	1,407	1,667	1,974	585	12,306	10.1	5.8
SC	8,118	23,579	50,226	53,182	53,253	51,747	51,289	50,198	48,933	30,720	12,323	433,568	69.1	43.4
SD	23	50	56	47	50	53	26	11	9	0	0	325	0.3	0.5
TN	140	139	115	214	242	234	236	245	248	216	22	2,051	0.2	0.4
TX	4,040	4,764	8,788	8,697	8,600	9,070	7,224	6,729	6,447	2,693	1,287	68,339	1.6	1.2
UT	870	1,856	1,880	1,934	1,852	1,876	1,862	1,927	1,845	1,272	741	17,915	3.7	2.9
VA	123	186	458	987	737	682	1,567	1,530	1,296	669	6	8,241	0.8	4.5
VT	43	213	279	462	403	539	693	570	460	360	350	4,372	5.8	1.0
WA	3,154	6,185	12,805	22,450	23,881	24,391	25,968	25,222	23,945	18,367	8,454	194,822	22.3	14.6
WI	2,787	8,378	17,134	21,145	21,381	21,729	23,293	22,533	21,368	14,228	6,465	180,441	24.7	48.3
WV	101	164	194	137	166	107	114	146	152	0	0	1,281	0.5	0.2
WY	2,405	3,545	5,317	5,582	5,541	5,793	5,973	5,710	5,309	3,996	2,937	52,108	69.9	36.1
Total	79,137	162,955	339,399	410,043	414,234	413,489	417,671	399,721	382,986	253,901	158,290	3,431,826	8.1	6.3

Table A.6. Spring 2010 MATHEMATICS Test Events Pool by State by Grade

State	Student Test Events											Total	% K-10 State Enrlmt	% of State Schls
	Grade	K	1	2	3	4	5	6	7	8	9			
AK	894	1,322	1,531	1,708	1,708	1,626	1,648	1,660	1,683	1,334	737	15,851	14.5	3.0
AL	84	79	0	0	0	0	0	0	0	0	0	163	0.0	0.2
AR	139	523	2,611	2,764	2,629	2,498	2,476	2,128	1,439	1,061	520	18,788	4.5	1.6
AZ	235	1,835	2,052	3,509	3,327	3,287	2,910	2,832	2,845	1,001	641	24,474	2.6	3.5
CA	2,759	4,019	7,688	9,929	10,591	10,735	8,586	6,969	6,953	3,259	2,501	73,989	1.4	1.4
CO	4,089	8,022	18,634	22,125	21,906	21,105	19,333	17,896	17,191	11,853	10,125	172,279	24.5	20.8
CT	272	565	265	505	363	442	278	124	126	554	334	3,828	0.8	0.8
DC	144	104	0	56	0	86	120	100	82	0	0	692	1.1	1.9
DE	878	1,396	4,061	4,400	4,535	4,281	4,218	4,017	4,072	2,485	1,933	36,276	33.8	20.9
FL	167	159	192	267	287	214	53	67	50	134	221	1,811	0.1	0.2
GA	1,174	1,342	1,189	2,170	2,030	2,157	2,567	2,660	2,625	308	234	18,456	1.3	0.9
HI	404	396	356	450	426	516	191	147	154	161	67	3,268	2.1	2.1
IA	1,410	1,911	4,555	10,133	10,490	10,191	10,470	11,249	11,196	8,187	7,935	87,727	21.5	37.0
ID	0	36	0	0	0	0	0	0	0	0	0	36	0.0	0.1
IL	5,426	10,241	30,038	41,779	43,308	42,782	45,415	46,297	42,789	13,640	8,917	330,632	18.1	24.5
IN	10,094	15,477	19,385	21,944	21,253	21,260	20,493	19,489	19,254	11,978	4,813	185,440	20.7	21.3
KS	6,146	7,309	10,796	19,017	19,585	18,583	18,424	18,421	19,032	13,013	8,611	158,937	39.2	26.3
KY	10,559	11,451	12,124	14,742	14,553	14,695	14,556	13,684	13,774	11,099	8,124	139,361	24.0	13.0
LA	257	264	274	273	291	259	259	270	317	0	0	2,464	0.4	0.6
MA	1,303	1,551	4,261	5,020	5,282	5,440	4,991	4,546	3,681	2,138	1,149	39,362	4.8	10.7
MD	0	57	67	58	69	43	190	196	105	0	0	785	0.1	0.1
ME	555	1,226	3,656	9,185	9,753	10,238	10,720	11,185	11,272	7,287	4,378	79,455	50.2	11.9
MI	4,350	6,276	9,271	12,191	12,527	12,838	13,100	12,544	11,973	6,148	4,086	105,304	7.7	6.8
MN	10,879	16,220	40,796	47,712	47,814	47,764	46,011	44,004	37,348	20,962	11,815	371,325	53.8	29.3
MO	661	1,149	2,190	1,680	1,408	1,349	1,446	899	868	771	602	13,023	1.7	3.2
MS	2,843	2,957	3,419	5,903	7,376	7,151	6,529	6,225	6,057	4,376	3,012	55,848	12.9	3.8
MT	1,889	2,175	3,182	5,868	6,084	6,711	6,892	6,968	6,429	4,224	3,292	53,714	44.9	21.3
NC	1,411	1,490	1,591	1,928	1,899	1,815	2,165	2,055	1,300	133	34	15,821	1.2	2.6
ND	2,985	3,544	5,526	6,667	6,486	6,823	6,873	7,080	7,236	7,184	6,831	67,235	84.7	32.9
NE	765	1,151	2,168	4,069	4,117	3,930	3,501	3,923	3,437	2,026	1,748	30,835	12.4	24.0
NH	855	3,067	6,200	9,046	9,337	9,440	10,819	10,619	9,424	6,046	4,427	79,280	47.6	8.1
NJ	3,244	4,996	5,673	9,091	9,866	9,873	9,805	7,205	5,337	1,975	1,981	69,046	5.8	11.4
NM	5,800	6,223	8,497	12,151	12,011	12,051	12,502	12,006	11,829	11,266	9,081	113,417	39.5	4.8
NV	2,584	3,391	3,250	3,701	3,760	3,729	3,447	3,134	3,007	2,830	1,589	34,422	9.0	2.4
NY	937	1,190	1,043	2,058	2,891	3,737	3,776	2,797	2,618	1,135	252	22,434	1.0	12.2
OH	1,727	2,346	2,416	3,647	3,282	3,532	4,070	4,217	3,697	6,591	2,080	37,605	2.4	2.3
OK	870	918	538	1,377	1,427	1,354	1,160	955	363	156	84	9,202	1.6	1.1
OR	137	315	710	784	720	710	483	539	552	362	203	5,515	1.2	1.9
PA	2,901	3,691	2,872	3,965	4,120	4,578	4,096	4,859	4,402	4,635	3,756	43,875	2.9	1.9
RI	52	72	1,059	1,073	1,352	1,535	1,997	1,505	1,808	2,008	696	13,157	10.7	9.0
SC	12,134	28,745	48,285	51,471	51,535	49,659	49,156	47,938	45,381	27,319	8,424	420,047	66.9	48.0
SD	57	61	19	45	58	53	0	0	0	32	31	356	0.3	0.5
TN	130	260	239	239	250	286	136	168	146	60	39	1,953	0.2	0.2
TX	4,847	5,348	4,395	8,879	8,803	8,598	10,544	10,705	9,899	4,471	1,320	77,809	1.9	1.2
UT	1,283	1,938	0	104	79	89	22	23	26	28	14	3,606	0.7	2.1
VA	442	450	1,072	994	744	936	1,466	1,369	1,084	414	37	9,008	0.9	4.5
VT	83	241	319	518	470	513	753	955	857	497	546	5,752	7.7	1.2
WA	6,110	7,203	14,078	23,321	24,716	25,524	26,580	26,853	24,795	18,401	7,377	204,958	23.4	17.3
WI	5,802	9,920	17,180	23,843	24,394	25,257	27,741	27,271	26,629	15,939	6,546	210,522	28.8	60.9
WV	167	177	34	141	170	80	57	64	14	0	0	904	0.4	0.1
WY	3,831	4,036	5,161	6,158	6,206	6,280	6,368	6,164	6,077	5,009	3,943	59,233	79.4	50.3
Total	126,765	188,835	314,918	418,658	426,288	426,633	429,393	416,981	391,233	244,490	145,086	3,529,280	8.4	7.1

Table A.7. Fall 2009 GENERAL SCIENCE Test Events Pool by State by Grade

State	Student Test Events									% K-10 State Enrlmt	% of State Schls
	Grade										
	3	4	5	6	7	8	9	10	Total		
AK	140	235	214	49	84	108	284	136	1,250	1.1	0.8
AL	0	0	0	0	0	0	0	0	0	0.0	0.0
AR	39	41	73	64	59	80	0	0	356	0.1	0.1
AZ	219	1,597	216	238	229	1,478	82	51	4,110	0.4	3.2
CA	53	124	256	70	27	61	0	0	591	0.0	0.0
CO	2,606	3,025	5,012	4,981	5,356	5,655	3,118	3,361	33,114	4.7	7.7
CT	0	0	39	149	160	153	68	83	652	0.1	0.1
DC	0	0	0	107	125	59	0	0	291	0.5	0.5
DE	0	0	0	28	28	25	287	318	686	0.6	0.9
FL	2	305	303	81	138	164	1	0	994	0.0	0.2
GA	731	685	701	1,063	996	978	0	0	5,154	0.4	0.4
HI	1	18	5	124	141	135	39	28	491	0.3	1.0
IA	2,833	3,371	3,572	3,775	4,698	5,507	4,681	3,922	32,359	7.9	20.2
ID	0	0	0	0	0	0	0	0	0	0.0	0.0
IL	404	741	603	2,116	2,978	2,060	300	268	9,470	0.5	1.0
IN	435	808	580	788	1,767	1,765	569	265	6,977	0.8	1.0
KS	1,032	1,733	791	1,159	2,172	1,420	2,491	2,539	13,337	3.3	5.8
KY	2,209	5,618	2,250	3,182	4,197	2,816	1,850	1,712	23,834	4.1	4.2
LA	0	0	0	0	0	0	0	0	0	0.0	0.0
MA	0	0	0	0	0	0	0	0	0	0.0	0.0
MD	0	0	0	0	38	36	0	0	74	0.0	0.1
ME	268	387	531	560	1,232	1,274	1,199	895	6,346	4.0	1.4
MI	202	944	391	709	1,687	1,262	1,166	928	7,289	0.5	0.7
MN	3,800	4,636	5,228	2,149	2,369	3,130	1,226	1,123	23,661	3.4	4.1
MO	286	377	317	302	261	287	115	196	2,141	0.3	0.9
MS	114	126	531	281	311	304	344	196	2,207	0.5	0.4
MT	549	728	709	982	865	1,219	534	643	6,229	5.2	4.4
NC	21	58	518	91	168	476	0	0	1,332	0.1	0.9
ND	616	587	673	916	1,005	865	1,164	1,241	7,067	8.9	6.3
NE	376	414	539	858	1,092	1,130	662	771	5,842	2.4	6.6
NH	165	166	325	450	403	462	484	295	2,750	1.7	0.4
NJ	83	68	95	88	901	860	484	50	2,629	0.2	0.8
NM	2,115	2,100	2,208	2,432	2,620	2,526	2,775	2,657	19,433	6.8	1.8
NV	366	521	511	1,685	1,901	1,959	1,568	963	9,474	2.5	0.9
NY	0	0	0	102	343	114	82	0	641	0.0	0.4
OH	958	687	1,716	2,219	2,457	2,404	4,584	3,342	18,367	1.2	1.7
OK	0	71	44	59	69	71	62	74	450	0.1	0.1
OR	0	26	26	0	25	21	140	0	238	0.1	0.1
PA	0	0	0	109	370	129	113	392	1,113	0.1	0.1
RI	0	0	0	0	0	0	0	0	0	0.0	0.0
SC	6,885	6,759	6,813	8,148	7,594	7,756	891	589	45,435	7.2	9.8
SD	0	0	0	0	0	0	0	0	0	0.0	0.0
TN	12	18	115	136	143	131	27	138	720	0.1	0.3
TX	6,900	7,662	8,301	5,619	5,263	6,088	1,105	1,859	42,797	1.0	1.0
UT	175	566	577	928	877	862	783	700	5,468	1.1	2.2
VA	0	0	0	0	0	0	0	0	0	0.0	0.0
VT	0	0	0	80	29	101	102	0	312	0.4	0.1
WA	132	467	1,759	2,064	2,418	2,692	1,942	1,598	13,072	1.5	1.6
WI	1,254	1,372	1,487	1,925	2,617	2,480	1,873	1,285	14,293	2.0	7.2
WV	17	18	12	10	10	14	0	0	81	0.0	0.0
WY	530	658	600	1,069	1,494	1,310	1,438	1,385	8,484	11.4	11.4
Total	36,528	47,717	48,641	51,945	61,717	62,427	38,633	34,003	381,611	0.9	1.4

Table A.8. Spring 2010 GENERAL SCIENCE Test Events Pool by State by Grade

ST	Student Test Events									% K-10 State Enrlmt	% of State Schls
	Grade										
	3	4	5	6	7	8	9	10	Total		
AK	216	244	180	41	72	122	152	85	3991	3.6	1.2
AR	38	43	67	56	63	81	0	0	941	0.2	0.1
AZ	114	164	108	194	170	135	77	41	587	0.1	0.3
CA	0	0	234	0	29	0	0	0	1136	0.0	0.0
CO	2635	3387	4829	4641	4800	5216	2944	2993	36874	5.2	6.7
CT	0	43	31	149	117	179	66	74	1310	0.3	0.3
DC	0	0	83	122	101	81	0	0	294	0.5	0.5
DE	0	0	0	0	10	20	448	437	1871	1.7	1.4
FL	1	5	235	0	1	101	1	0	266	0.0	0.0
GA	739	690	704	1180	1351	1292	0	0	2596	0.2	0.2
HI	2	1	3	121	134	140	41	29	0	0.0	0.3
IA	3522	3975	4603	4252	5523	6658	4827	4391	34709	8.5	23.2
IL	359	730	539	2198	2979	2242	219	121	10640	4.5	1.3
IN	1790	1791	1914	1751	1558	1850	281	137	16423	0.9	2.0
KS	611	629	578	732	1097	877	1260	921	7310	0.8	3.3
KY	1963	5329	1748	2626	4488	2493	1648	1579	36889	9.1	5.9
MD	0	0	0	0	20	0	0	0	526	0.1	0.1
ME	503	694	724	1294	1678	1751	947	964	11465	7.2	2.4
MI	552	2300	840	1332	2946	1853	1102	1034	21858	1.6	1.9
MN	1010	2113	2127	2690	2323	2292	1153	775	13857	2.0	2.0
MO	310	216	205	283	251	178	71	60	2807	0.4	0.8
MS	0	0	0	173	287	285	241	123	973	0.2	0.1
MT	618	709	633	992	1034	1432	764	863	5672	4.7	5.0
NC	0	0	417	63	11	318	0	0	1718	0.1	0.5
ND	722	707	779	1009	1378	1297	1213	1078	4784	6.0	7.8
NE	632	684	861	958	1163	1220	1013	1104	5404	2.2	8.6
NH	140	211	834	861	658	548	681	322	7037	4.2	0.9
NJ	160	141	235	97	894	51	507	10	6030	0.5	1.4
NM	1778	1734	1715	2056	2238	2155	2339	2186	11130	3.9	1.3
NV	320	469	441	1471	1642	1595	1357	964	7897	2.1	1.1
NY	0	0	0	99	335	111	72	0	1048	0.0	0.2
OH	538	269	1331	1629	1771	1568	5257	1040	14338	0.9	0.9
OK	0	69	43	57	67	69	58	66	640	0.1	0.1
OR	0	0	0	0	0	0	101	0	271	0.1	0.1
PA	0	0	0	112	343	116	105	389	1616	0.1	0.1
RI	52	46	42	0	0	0	0	0	253	0.2	0.3
SC	5516	5508	5575	7289	6789	6807	580	354	34212	5.5	6.5
TN	18	21	24	33	57	21	63	36	0	0.0	0.0
TX	7031	7197	7676	9210	8777	8403	777	3008	39512	0.9	0.8
UT	100	141	102	52	31	11	0	0	293	0.1	0.1
VT	0	0	14	41	222	166	76	22	723	1.0	0.2
WA	94	352	2025	2046	3036	2921	2134	1162	19790	2.3	1.5
WI	1484	1625	2233	2349	2874	3303	1994	1351	19947	2.7	7.6
WV	20	18	12	10	9	14	0	0	158	0.1	0.0
WY	662	794	741	1015	1409	1503	1119	1144	10196	13.7	14.5
Total	34,250	43,049	45,485	55,284	64,736	61,475	35,688	28,863	399,992	1.1	1.4

Table A.9. Fall 2009 SCIENCE CONCEPTS and PROCESSES Test Events Pool by State by Grade

State	Student Test Events									Total	% K-10 State Enrlmt	% of State Schls
	Grade											
	3	4	5	6	7	8	9	10				
AK	141	236	216	49	88	110	281	135	1,256	1.1	0.7	
AL	0	0	0	0	0	0	0	0	0	0.0	0.0	
AR	39	41	70	64	61	78	0	0	353	0.1	0.1	
AZ	216	1,631	222	237	236	1,485	92	50	4,169	0.4	3.0	
CA	58	130	261	81	27	60	0	0	617	0.0	0.0	
CO	2,615	3,033	5,084	5,095	5,413	5,753	3,170	3,425	33,588	4.8	8.3	
CT	0	0	41	152	159	156	70	85	663	0.1	0.3	
DC	0	0	0	106	125	60	0	0	291	0.5	0.5	
DE	0	0	0	28	28	26	295	330	707	0.7	0.5	
FL	2	301	299	87	137	164	1	0	991	0.0	0.1	
GA	732	685	700	1,058	996	977	0	0	5,148	0.4	0.3	
HI	1	17	5	125	141	135	39	27	490	0.3	0.7	
IA	2,838	3,374	3,634	3,785	4,781	5,558	4,752	3,937	32,659	8.0	17.4	
ID	0	0	0	0	0	0	0	0	0	0.0	0.0	
IL	418	738	612	2,121	3,025	2,064	298	269	9,545	0.5	1.2	
IN	442	805	582	792	1,794	1,783	576	271	7,045	0.8	1.1	
KS	1,033	1,702	795	1,164	2,175	1,447	2,509	2,519	13,344	3.3	6.3	
KY	2,164	5,604	2,249	3,192	4,192	2,802	1,863	1,707	23,773	4.1	4.3	
LA	0	0	0	0	0	0	0	0	0	0.0	0.0	
MA	0	0	0	0	0	0	0	0	0	0.0	0.0	
MD	0	0	0	0	37	36	0	0	73	0.0	0.1	
ME	268	390	534	565	985	1,076	1,203	905	5,926	3.7	1.2	
MI	192	934	393	707	1,696	1,270	1,181	937	7,310	0.5	0.8	
MN	3,687	4,628	5,121	2,138	2,337	3,050	1,227	1,058	23,246	3.4	4.0	
MO	283	381	328	302	264	285	115	195	2,153	0.3	0.8	
MS	114	127	531	281	309	298	341	195	2,196	0.5	0.3	
MT	512	705	667	938	835	1,184	537	649	6,027	5.0	4.9	
NC	22	60	518	92	170	477	0	0	1,339	0.1	0.9	
ND	616	585	672	924	1,010	871	1,164	1,248	7,090	8.9	6.4	
NE	354	395	521	835	1,110	1,154	648	763	5,780	2.3	7.4	
NH	164	170	327	452	404	467	487	300	2,771	1.7	0.4	
NJ	82	68	95	91	903	860	494	50	2,643	0.2	0.5	
NM	2,069	2,052	2,155	2,443	2,636	2,540	2,802	2,668	19,365	6.8	1.6	
NV	364	532	514	1,687	1,927	1,976	1,578	976	9,554	2.5	1.0	
NY	0	0	0	102	344	117	86	0	649	0.0	0.4	
OH	932	661	1,692	2,219	2,449	2,399	4,631	3,390	18,373	1.2	1.6	
OK	0	70	44	59	69	71	61	74	448	0.1	0.1	
OR	0	25	25	0	25	21	141	0	237	0.1	0.2	
PA	0	0	0	109	370	129	112	391	1,111	0.1	0.1	
RI	0	0	0	0	0	0	0	0	0	0.0	0.0	
SC	6,935	6,797	6,859	8,218	7,671	7,801	897	593	45,771	7.3	8.9	
SD	0	0	0	0	0	0	0	0	0	0.0	0.0	
TN	0	18	21	36	39	21	24	24	183	0.0	0.1	
TX	6,948	7,680	8,392	5,670	5,324	6,187	1,119	1,859	43,179	1.0	0.9	
UT	171	564	574	931	880	859	785	701	5,465	1.1	2.0	
VA	0	0	0	0	0	0	0	0	0	0.0	0.0	
VT	0	0	0	82	29	100	103	0	314	0.4	0.1	
WA	128	466	1,767	2,076	2,441	2,713	1,978	1,615	13,184	1.5	1.4	
WI	1,255	1,377	1,490	1,942	2,619	2,508	1,881	1,291	14,363	2.0	6.4	
WV	17	18	12	10	10	14	0	0	81	0.0	0.0	
WY	524	662	601	1,066	1,500	1,308	1,437	1,387	8,485	11.4	12.7	
Total	36,336	47,662	48,623	52,111	61,771	62,450	38,978	34,024	381,955	0.9	1.4	

Table A.10. Spring 2010 SCIENCE CONCEPTS and PROCESSES Test Events Pool by State by Grade

State	Student Test Events									% K-10 State Enrlmt	% of State Schls
	Grade										
	3	4	5	6	7	8	9	10	Total		
AK	217	245	182	41	72	123	149	86	1,115	1.0	1.3
AR	37	43	64	56	66	81	0	0	347	0.1	0.4
AZ	117	167	112	205	172	137	78	42	1,030	0.1	0.3
CA	0	0	243	0	29	1	0	0	273	0.0	0.3
CO	2,670	3,425	4,893	4,687	4,851	5,240	2,984	3,032	31,782	4.5	1.2
CT	0	44	31	150	117	178	67	76	663	0.1	0.1
DC	0	0	83	128	101	81	0	0	393	0.6	0.1
DE	0	0	0	0	10	21	455	432	918	0.9	1.9
FL	1	5	233	0	1	101	1	0	342	0.0	0.9
GA	737	691	702	1,188	1,356	1,287	0	0	5,961	0.4	0.2
HI	2	1	3	121	134	142	45	29	477	0.3	0.0
IA	3,470	3,896	4,579	4,336	5,575	6,692	5,023	4,562	38,133	9.4	61.5
IL	360	728	544	2,201	2,982	2,249	223	121	9,408	0.5	3.2
IN	1,800	1,795	1,915	1,756	1,564	1,855	281	143	11,109	1.2	0.7
KS	611	632	578	728	1,113	828	1,253	920	6,663	1.6	1.9
KY	1,973	5,332	1,751	2,659	4,492	2,468	1,641	1,534	21,850	3.8	5.5
MD	0	0	0	0	22	0	0	0	22	0.0	0.1
ME	504	691	731	1,318	1,698	1,766	950	972	8,630	5.4	3.5
MI	542	2,270	846	1,337	2,955	1,849	1,105	1,045	11,949	0.9	4.7
MN	941	2,002	2,041	2,572	2,233	2,220	1,080	686	13,775	2.0	6.8
MO	316	230	207	284	250	178	71	60	1,596	0.2	0.6
MS	0	0	0	172	285	287	240	120	1,104	0.3	0.2
MT	534	688	590	948	1,005	1,402	764	868	6,799	5.7	0.8
NC	0	0	417	63	11	318	0	0	809	0.1	0.2
ND	726	706	780	1,011	1,384	1,307	1,213	1,085	8,212	10.3	5.1
NE	611	666	840	932	1,137	1,195	983	1,069	7,433	3.0	1.6
NH	141	212	845	869	659	549	686	327	4,288	2.6	2.9
NJ	160	141	234	97	896	51	507	8	2,094	0.2	1.5
NM	1,788	1,732	1,719	2,083	2,263	2,193	2,368	2,217	16,363	5.7	11.6
NV	322	472	471	1,487	1,651	1,622	1,354	976	8,355	2.2	4.9
NY	0	0	0	98	340	112	74	0	624	0.0	0.0
OH	510	251	1,343	1,631	1,769	1,563	5,232	1,040	13,339	0.9	4.6
OK	0	69	43	57	67	69	58	64	427	0.1	0.0
OR	0	0	0	0	0	0	102	0	102	0.0	0.0
PA	0	0	0	112	345	116	105	393	1,071	0.1	0.6
RI	52	45	44	0	0	0	0	0	141	0.1	0.0
SC	5,594	5,518	5,600	7,369	6,885	6,869	586	364	38,785	6.2	4.8
TN	18	21	27	39	51	24	63	30	273	0.0	0.2
TX	7,055	7,207	7,716	9,296	8,866	8,575	781	3,086	52,582	1.3	2.0
UT	100	138	105	55	32	12	0	0	442	0.1	1.0
VT	0	0	18	45	220	160	76	22	541	0.7	0.3
WA	93	355	2,025	2,052	2,874	2,786	1,896	1,172	13,253	1.5	5.5
WI	1,530	1,626	2,231	2,351	2,881	3,330	1,995	1,349	17,293	2.4	3.6
WV	20	18	12	10	9	14	0	0	83	0.0	0.0
WY	666	813	740	1,015	1,414	1,505	1,128	1,152	8,433	11.3	4.7
Total	34,218	42,875	45,538	55,559	64,837	61,556	35,617	29,082	369,282	1.0	1.5

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Appendix B - Percentile Ranks of Achievement Status in Reading, Language Usage, Mathematics, General Science, and Science Concepts & Processes

It should be understood that the estimation of status takes into account the number of instructional weeks preceding a test administration. This number varies between grade levels, schools, and school districts. Each grade level in each content area and in each term have slightly different averages of instructional weeks. These average numbers of instructional weeks were used to compute status norms and percentiles. For reporting purposes, the numbers of instructional weeks in the following tables are cited as *approximately* 4, 18, and 28 for the fall, winter, and spring terms, respectively. The observed average numbers of instructional weeks was within two weeks of these values.

Table B.1. Fall READING

Northwest Evaluation Association
Fall Reading RIT Score to Percentile Rank Conversion
 (At approximately 4 instructional weeks)

%ile	Kdg	G 1	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
1	120	132	142	157	168	176	181	185	187	188	189	190	1
2	122	135	145	160	171	179	184	188	190	191	193	193	2
3	123	137	147	162	173	181	186	190	192	193	195	195	3
4	124	138	149	164	175	183	187	192	194	195	197	197	4
5	125	139	151	165	176	184	189	193	195	197	198	198	5
6	126	140	152	167	178	185	190	194	196	198	200	200	6
7	127	141	153	168	179	186	191	195	197	199	201	201	7
8	128	142	154	169	180	187	192	196	198	200	202	202	8
9	128	143	155	170	181	188	193	197	199	201	203	203	9
10	129	144	156	171	181	189	194	198	200	202	204	204	10
11	129	144	157	171	182	190	195	199	201	203	204	205	11
12	130	145	158	172	183	190	195	199	202	203	205	205	12
13	130	146	158	173	184	191	196	200	202	204	206	206	13
14	131	146	159	174	184	192	197	201	203	205	207	207	14
15	131	147	160	174	185	192	197	201	204	206	207	208	15
16	132	147	160	175	185	193	198	202	204	206	208	208	16
17	132	148	161	175	186	193	198	202	205	207	208	209	17
18	133	148	162	176	186	194	199	203	205	207	209	209	18
19	133	149	162	177	187	194	199	204	206	208	210	210	19
20	133	149	163	177	188	195	200	204	207	208	210	210	20
21	134	150	163	178	188	195	200	205	207	209	211	211	21
22	134	150	164	178	188	196	201	205	208	209	211	212	22
23	134	151	164	179	189	196	201	206	208	210	212	212	23
24	135	151	165	179	189	197	202	206	209	210	212	212	24
25	135	151	165	180	190	197	202	206	209	211	213	213	25
26	135	152	166	180	190	198	203	207	209	211	213	214	26
27	136	152	166	180	191	198	203	207	210	212	214	214	27
28	136	153	167	181	191	199	204	208	210	212	214	214	28
29	136	153	167	181	192	199	204	208	211	213	214	214	29
30	137	153	168	182	192	199	204	209	211	213	215	215	30
31	137	154	168	182	192	200	205	209	212	214	215	216	31
32	137	154	168	183	193	200	205	209	212	214	216	216	32
33	138	154	169	183	193	201	206	210	212	214	216	216	33
34	138	155	169	183	194	201	206	210	213	215	217	217	34
35	138	155	170	184	194	201	206	211	213	215	217	217	35
36	138	155	170	184	194	202	207	211	214	216	217	217	36
37	139	156	170	185	195	202	207	211	214	216	218	218	37
38	139	156	171	185	195	202	208	212	214	216	218	218	38
39	139	156	171	185	195	203	208	212	215	217	219	219	39
40	140	157	172	186	196	203	208	212	215	217	219	219	40
41	140	157	172	186	196	204	209	213	216	218	219	219	41
42	140	157	172	187	197	204	209	213	216	218	220	220	42
43	140	158	173	187	197	204	209	213	216	218	220	220	43
44	141	158	173	187	197	205	210	214	217	219	221	221	44
45	141	158	174	188	198	205	210	214	217	219	221	221	45
46	141	159	174	188	198	205	211	215	217	220	221	222	46
47	141	159	174	188	198	206	211	215	218	220	222	222	47
48	142	159	175	189	199	206	211	215	218	220	222	222	48
49	142	160	175	189	199	206	212	216	219	221	223	223	49
50	142	160	176	190	199	207	212	216	219	221	223	223	50

Northwest Evaluation Association
Fall Reading RIT Score to Percentile Rank Conversion
 (At approximately 4 instructional weeks)

%ile	Kdg	G 1	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
51	142	160	176	190	200	207	212	216	219	221	223	224	51
52	143	161	176	190	200	207	213	217	220	222	224	224	52
53	143	161	177	191	201	208	213	217	220	222	224	225	53
54	143	161	177	191	201	208	213	217	220	223	224	225	54
55	144	162	178	191	201	209	214	218	221	223	225	225	55
56	144	162	178	192	202	209	214	218	221	223	225	226	56
57	144	162	178	192	202	209	215	218	222	224	226	226	57
58	144	163	179	193	202	210	215	219	222	224	226	227	58
59	145	163	179	193	203	210	215	219	222	225	226	227	59
60	145	163	180	193	203	210	216	220	223	225	227	228	60
61	145	164	180	194	203	211	216	220	223	225	227	228	61
62	146	164	180	194	204	211	216	220	224	226	228	228	62
63	146	164	181	195	204	212	217	221	224	226	228	229	63
64	146	165	181	195	205	212	217	221	224	227	228	229	64
65	146	165	182	195	205	212	218	221	225	227	229	230	65
66	147	165	182	196	205	213	218	222	225	227	229	230	66
67	147	166	182	196	206	213	218	222	226	228	230	231	67
68	147	166	183	197	206	213	219	223	226	228	230	231	68
69	148	166	183	197	207	214	219	223	226	229	231	232	69
70	148	167	184	197	207	214	220	223	227	229	231	232	70
71	148	167	184	198	207	215	220	224	227	230	231	233	71
72	149	167	185	198	208	215	220	224	228	230	232	233	72
73	149	168	185	199	208	216	221	225	228	230	232	234	73
74	149	168	186	199	209	216	221	225	229	231	233	234	74
75	150	169	186	200	209	216	222	226	229	231	233	235	75
76	150	169	187	200	210	217	222	226	230	232	234	235	76
77	150	169	187	201	210	217	223	227	230	232	234	236	77
78	151	170	188	201	211	218	223	227	231	233	235	236	78
79	151	170	188	202	211	218	224	228	231	233	235	237	79
80	151	171	189	202	212	219	224	228	232	234	236	238	80
81	152	171	189	203	212	219	225	229	232	234	236	238	81
82	152	172	190	203	213	220	225	229	233	235	237	239	82
83	153	172	190	204	213	220	226	230	233	236	238	240	83
84	153	173	191	205	214	221	226	230	234	236	238	240	84
85	154	173	192	205	214	222	227	231	235	237	239	241	85
86	154	174	192	206	215	222	228	231	235	238	240	242	86
87	155	174	193	207	216	223	228	232	236	238	240	243	87
88	155	175	194	207	216	224	229	233	237	239	241	244	88
89	156	176	195	208	217	224	230	234	237	240	242	245	89
90	156	177	196	209	218	225	231	234	238	241	243	246	90
91	157	177	197	210	219	226	232	235	239	242	244	247	91
92	158	178	198	211	220	227	233	236	240	243	245	248	92
93	159	179	199	212	221	228	234	237	241	244	246	249	93
94	160	180	200	213	222	229	235	239	243	245	247	251	94
95	161	181	202	215	224	231	236	240	244	247	249	252	95
96	162	183	203	217	225	232	238	242	246	248	250	255	96
97	164	185	206	219	227	234	240	244	248	251	253	257	97
98	167	187	209	222	230	237	243	247	251	254	256	262	98
99	177	193	215	228	236	243	249	252	257	260	262	264	99

Note: Shaded cell values were generated assuming a normal distribution from the mean and SD of the SCI-weighted RIT scores.

Table B.2. Winter READING

Northwest Evaluation Association
Winter Reading RIT Score to Percentile Rank Conversion
 (At approximately 18 Instructional weeks)

%ile	Kdg	G 1	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
1	126	141	151	163	172	179	183	187	189	188	189	190	1
2	128	144	154	166	175	182	186	190	192	191	192	193	2
3	129	146	156	168	177	184	188	192	194	194	195	195	3
4	131	148	158	170	179	185	190	194	196	195	196	197	4
5	132	149	159	171	180	187	191	195	197	197	198	198	5
6	133	150	161	172	181	188	192	196	199	198	199	200	6
7	133	151	162	173	183	189	193	197	200	199	200	201	7
8	134	152	163	174	183	190	194	198	201	200	202	202	8
9	135	153	164	175	184	191	195	199	202	201	202	203	9
10	135	153	165	176	185	192	196	200	202	202	203	205	10
11	136	154	165	177	186	192	197	201	203	203	204	205	11
12	137	155	166	177	187	193	197	201	204	204	205	206	12
13	137	155	167	178	187	194	198	202	205	205	206	206	13
14	138	156	167	179	188	194	199	203	205	205	206	207	14
15	138	157	168	179	188	195	199	203	206	206	207	208	15
16	139	157	169	180	189	196	200	204	206	207	208	208	16
17	139	158	169	181	190	196	200	205	207	207	208	209	17
18	140	158	170	181	190	197	201	205	208	208	209	210	18
19	140	159	170	182	191	197	201	206	208	208	210	211	19
20	140	159	171	182	191	198	202	206	209	209	210	211	20
21	141	160	171	183	192	198	203	207	209	209	211	211	21
22	141	160	172	183	192	199	203	207	210	210	211	212	22
23	142	161	172	184	193	199	203	208	210	210	212	212	23
24	142	161	173	184	193	200	204	208	211	211	212	212	24
25	142	161	173	185	193	200	204	208	211	211	213	213	25
26	143	162	174	185	194	200	205	209	212	212	213	214	26
27	143	162	174	185	194	201	205	209	212	212	214	214	27
28	143	163	175	186	195	201	206	210	212	213	214	214	28
29	144	163	175	186	195	202	206	210	213	213	215	215	29
30	144	163	176	187	196	202	206	211	213	214	215	215	30
31	144	164	176	187	196	203	207	211	214	214	215	216	31
32	145	164	176	188	196	203	207	211	214	214	216	216	32
33	145	165	177	188	197	203	208	212	214	215	216	217	33
34	145	165	177	188	197	204	208	212	215	215	217	217	34
35	146	165	178	189	197	204	208	212	215	216	217	218	35
36	146	166	178	189	198	204	209	213	216	216	218	218	36
37	146	166	178	189	198	205	209	213	216	217	218	218	37
38	147	166	179	190	199	205	210	214	216	217	218	219	38
39	147	167	179	190	199	206	210	214	217	217	219	219	39
40	147	167	180	191	199	206	210	214	217	218	219	220	40
41	148	167	180	191	200	206	211	215	218	218	220	220	41
42	148	168	180	191	200	207	211	215	218	219	220	221	42
43	148	168	181	192	200	207	211	215	218	219	220	221	43
44	149	168	181	192	201	207	212	216	219	219	221	221	44
45	149	169	181	192	201	208	212	216	219	220	221	222	45
46	149	169	182	193	201	208	213	216	219	220	222	222	46
47	149	169	182	193	202	208	213	217	220	220	222	222	47
48	150	170	183	194	202	209	213	217	220	221	222	222	48
49	150	170	183	194	203	209	214	218	221	221	223	223	49
50	151	171	184	195	203	210	214	218	221	222	223	223	50

Northwest Evaluation Association
Winter Reading RIT Score to Percentile Rank Conversion
 (At approximately 18 Instructional weeks)

%ile	Kdg	G 1	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
51	151	171	184	195	203	210	214	218	221	222	223	224	51
52	151	171	184	195	204	210	215	219	222	222	224	224	52
53	151	171	184	195	204	211	215	219	222	223	224	225	53
54	152	172	185	196	204	211	215	219	222	223	225	225	54
55	152	172	185	196	205	211	216	220	223	224	225	225	55
56	152	172	186	196	205	212	216	220	223	224	225	226	56
57	152	173	186	197	205	212	217	220	223	224	226	226	57
58	153	173	186	197	206	212	217	221	224	225	226	227	58
59	153	173	187	198	206	213	217	221	224	225	227	227	59
60	153	174	187	198	206	213	218	221	225	225	227	228	60
61	154	174	187	198	207	213	218	222	225	226	227	228	61
62	154	174	188	199	207	214	218	222	225	226	228	228	62
63	154	175	188	199	208	214	219	223	226	227	228	229	63
64	155	175	189	199	208	215	219	223	226	227	229	229	64
65	155	176	189	200	208	215	220	223	227	227	229	230	65
66	155	176	189	200	209	215	220	224	227	228	230	230	66
67	156	176	190	201	209	216	220	224	227	228	230	231	67
68	156	177	190	201	209	216	221	224	228	229	230	231	68
69	156	177	191	201	210	216	221	225	228	229	231	232	69
70	157	177	191	202	210	217	222	225	229	230	231	232	70
71	157	178	191	202	211	217	222	226	229	230	232	233	71
72	157	178	192	203	211	218	222	226	229	231	232	233	72
73	158	179	192	203	212	218	223	227	230	231	233	234	73
74	158	179	193	204	212	219	223	227	230	231	233	234	74
75	158	179	193	204	212	219	224	227	231	232	234	235	75
76	159	180	194	205	213	219	224	228	231	232	234	235	76
77	159	180	194	205	213	220	225	228	232	233	235	236	77
78	160	181	195	206	214	220	225	229	232	233	235	236	78
79	160	181	195	206	214	221	226	229	233	234	236	237	79
80	160	182	196	207	215	221	226	230	233	235	236	238	80
81	161	182	196	207	215	222	227	230	234	235	237	238	81
82	161	183	197	208	216	222	227	231	234	236	237	239	82
83	162	183	197	208	216	223	228	231	235	236	238	240	83
84	162	184	198	209	217	224	228	232	236	237	239	240	84
85	163	184	199	209	218	224	229	233	236	238	239	241	85
86	163	185	199	210	218	225	230	233	237	238	240	242	86
87	164	186	200	211	219	225	230	234	238	239	241	243	87
88	165	186	201	212	220	226	231	235	238	240	242	244	88
89	165	187	202	212	220	227	232	235	239	241	242	245	89
90	166	188	202	213	221	228	233	236	240	241	243	246	90
91	167	189	203	214	222	229	233	237	241	242	244	247	91
92	167	189	204	215	223	230	234	238	242	243	245	248	92
93	168	190	205	216	224	231	235	239	243	245	246	250	93
94	169	192	207	217	225	232	237	240	244	246	248	252	94
95	171	193	208	219	226	233	238	242	245	247	249	253	95
96	172	194	210	220	228	235	240	243	247	249	251	256	96
97	174	196	212	223	230	237	242	245	249	251	253	258	97
98	177	199	215	226	233	240	245	248	252	255	257	263	98
99	189	205	221	231	239	245	251	254	258	261	263	265	99

Notes: Shaded values were generated assuming a normal distribution from the mean and SD of the SCI-weighted RIT scores. Shaded *italicized* values were interpolated from RIT scores at the corresponding percentiles from fall and spring.

Table B.3. Spring READING

Northwest Evaluation Association
Spring Reading RIT Score to Percentile Rank Conversion
 (At approximately 28 Instructional weeks)

%ile	Kdg	G 1	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
1	127	145	157	167	176	181	184	188	190	188	187	190	1
2	130	148	160	170	179	184	187	191	193	191	191	193	2
3	132	150	162	173	181	186	189	193	195	193	193	195	3
4	133	152	164	174	182	188	191	195	197	195	195	197	4
5	135	153	165	176	184	189	193	196	198	197	197	198	5
6	136	154	167	177	185	190	194	197	199	198	198	200	6
7	137	155	168	178	186	191	195	199	201	199	199	201	7
8	138	156	169	179	187	192	196	200	202	200	200	202	8
9	138	157	170	180	188	193	197	200	202	201	201	203	9
10	139	158	170	181	189	194	198	201	203	202	202	204	10
11	140	159	171	181	189	195	198	202	204	203	203	205	11
12	141	160	172	182	190	195	199	203	205	204	204	206	12
13	141	160	173	183	191	196	200	203	206	205	205	206	13
14	142	161	173	183	191	197	200	204	206	206	206	207	14
15	142	162	174	184	192	197	201	205	207	206	206	208	15
16	143	162	175	185	192	198	202	205	207	207	207	208	16
17	143	163	175	185	193	198	202	206	208	207	208	209	17
18	144	163	176	186	194	199	203	206	209	208	208	210	18
19	144	164	176	186	194	200	203	207	209	209	209	211	19
20	145	164	177	187	195	200	204	207	210	209	210	211	20
21	145	165	177	187	195	201	204	208	210	210	210	211	21
22	146	165	178	188	196	201	205	208	211	210	211	212	22
23	146	166	178	188	196	202	205	209	211	211	211	212	23
24	147	166	179	189	196	202	206	209	212	211	212	212	24
25	147	167	179	189	197	202	206	210	212	212	212	213	25
26	147	167	180	190	197	203	207	210	213	212	213	214	26
27	148	168	180	190	198	203	207	211	213	213	213	214	27
28	148	168	181	191	198	204	208	211	213	213	214	214	28
29	149	169	181	191	199	204	208	211	214	214	214	215	29
30	149	169	182	191	199	205	208	212	214	214	215	215	30
31	149	169	182	192	199	205	209	212	215	215	215	216	31
32	150	170	182	192	200	205	209	213	215	215	216	216	32
33	150	170	183	193	200	206	210	213	216	216	216	217	33
34	150	171	183	193	201	206	210	213	216	216	217	217	34
35	151	171	184	193	201	207	210	214	216	216	217	218	35
36	151	171	184	194	201	207	211	214	217	217	218	218	36
37	151	172	184	194	202	207	211	215	217	217	218	218	37
38	152	172	185	194	202	208	212	215	218	218	218	219	38
39	152	173	185	195	202	208	212	215	218	218	219	219	39
40	152	173	186	195	203	208	212	216	218	219	219	220	40
41	153	173	186	196	203	209	213	216	219	219	220	220	41
42	153	174	186	196	204	209	213	216	219	219	220	221	42
43	153	174	187	196	204	209	214	217	219	220	221	221	43
44	154	174	187	197	204	210	214	217	220	220	221	222	44
45	154	175	187	197	205	210	214	218	220	221	221	222	45
46	154	175	188	197	205	211	215	218	221	221	222	222	46
47	155	175	188	198	205	211	215	218	221	221	222	222	47
48	155	176	189	198	206	211	215	219	221	222	223	223	48
49	155	176	189	199	206	212	216	219	222	222	223	223	49
50	156	177	190	199	207	212	216	220	222	223	224	224	50

Northwest Evaluation Association
Spring Reading RIT Score to Percentile Rank Conversion
 (At approximately 28 Instructional weeks)

%ile	Kdg	G 1	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
51	156	177	190	199	207	212	216	220	222	223	224	225	51
52	156	177	190	200	207	213	217	220	223	223	224	225	52
53	157	178	190	200	207	213	217	220	223	224	225	225	53
54	157	178	191	200	208	213	218	221	224	224	225	225	54
55	157	178	191	201	208	214	218	221	224	225	226	226	55
56	158	179	192	201	209	214	218	222	224	225	226	226	56
57	158	179	192	201	209	214	219	222	225	225	226	227	57
58	158	180	192	202	209	215	219	222	225	226	227	227	58
59	159	180	193	202	210	215	219	223	225	226	227	228	59
60	159	180	193	203	210	216	220	223	226	227	228	228	60
61	159	181	193	203	210	216	220	223	226	227	228	228	61
62	160	181	194	203	211	216	221	224	227	227	229	229	62
63	160	181	194	204	211	217	221	224	227	228	229	229	63
64	160	182	195	204	211	217	221	225	227	228	230	230	64
65	161	182	195	204	212	217	222	225	228	229	230	230	65
66	161	183	195	205	212	218	222	225	228	229	230	231	66
67	161	183	196	205	213	218	223	226	229	230	231	231	67
68	162	183	196	206	213	219	223	226	229	230	231	232	68
69	162	184	197	206	213	219	223	227	229	231	232	232	69
70	162	184	197	206	214	219	224	227	230	231	232	233	70
71	163	185	198	207	214	220	224	227	230	231	233	233	71
72	163	185	198	207	215	220	225	228	231	232	233	234	72
73	164	186	198	208	215	221	225	228	231	232	234	234	73
74	164	186	199	208	215	221	226	229	232	233	234	235	74
75	164	187	199	209	216	222	226	229	232	233	235	235	75
76	165	187	200	209	216	222	226	230	233	234	235	236	76
77	165	187	200	210	217	223	227	230	233	234	236	237	77
78	166	188	201	210	217	223	227	231	234	235	236	237	78
79	166	188	201	211	218	224	228	231	234	236	237	238	79
80	167	189	202	211	218	224	228	232	235	236	238	238	80
81	167	190	202	212	219	225	229	232	235	237	238	239	81
82	168	190	203	212	219	225	230	233	236	237	239	240	82
83	168	191	204	213	220	226	230	233	236	238	240	240	83
84	169	191	204	213	220	226	231	234	237	239	240	241	84
85	169	192	205	214	221	227	231	234	238	239	241	242	85
86	170	193	206	215	222	228	232	235	238	240	242	243	86
87	170	193	206	215	222	228	233	236	239	241	243	244	87
88	171	194	207	216	223	229	233	236	240	242	243	244	88
89	172	195	208	217	224	230	234	237	241	242	244	245	89
90	173	196	209	218	225	230	235	238	241	243	245	246	90
91	173	196	210	218	226	231	236	239	242	244	246	248	91
92	174	197	211	219	226	232	237	240	243	245	247	249	92
93	175	199	212	221	228	233	238	241	244	247	249	250	93
94	176	200	213	222	229	235	239	242	246	248	250	252	94
95	178	201	214	223	230	236	241	244	247	249	252	254	95
96	179	203	216	225	232	238	242	245	249	251	254	256	96
97	181	205	218	227	234	240	245	247	251	254	256	259	97
98	184	208	221	230	237	243	248	250	254	257	260	263	98
99	189	214	227	236	242	249	253	256	260	264	266	266	99

Note: Shaded cell values were generated assuming a normal distribution from the mean and SD of the SCI-weighted RIT scores.

Table B.4. Fall LANGUAGE USAGE

Northwest Evaluation Association
Fall Language Usage RIT Score to Percentile Rank Conversion
 (At approximately 4 instructional weeks)

%ile	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
1	142	159	170	178	183	187	190	191	192	193	1
2	145	162	173	181	186	190	193	194	195	195	2
3	147	164	175	183	188	191	194	196	197	197	3
4	149	166	177	185	189	193	196	198	198	198	4
5	150	167	178	186	191	194	197	199	200	200	5
6	152	168	179	187	192	195	198	200	201	201	6
7	153	170	180	188	193	196	199	201	202	202	7
8	154	171	181	189	194	197	200	202	203	203	8
9	155	171	182	190	195	198	201	203	204	204	9
10	156	172	183	191	195	199	202	204	204	204	10
11	157	173	184	191	196	200	202	204	205	205	11
12	157	174	184	192	197	200	203	205	206	206	12
13	158	174	185	193	197	201	204	206	206	207	13
14	159	175	186	193	198	201	204	206	207	207	14
15	159	176	186	194	198	202	205	207	208	208	15
16	160	176	187	194	199	202	205	207	208	209	16
17	161	177	187	195	199	203	206	208	209	209	17
18	161	177	188	195	200	204	206	208	209	210	18
19	162	178	188	196	200	204	207	209	210	210	19
20	162	179	189	196	201	204	207	209	210	211	20
21	163	179	189	197	201	205	208	210	211	212	21
22	163	180	190	197	202	205	208	210	211	212	22
23	164	180	190	198	202	206	209	211	212	212	23
24	164	181	191	198	203	206	209	211	212	212	24
25	165	181	191	199	203	207	210	211	212	212	25
26	165	181	192	199	204	207	210	212	213	213	26
27	166	182	192	199	204	207	210	212	213	214	27
28	166	182	192	200	204	208	211	213	214	214	28
29	167	183	193	200	205	208	211	213	214	215	29
30	167	183	193	201	205	209	212	213	214	215	30
31	168	184	194	201	205	209	212	214	215	216	31
32	168	184	194	201	206	209	212	214	215	215	32
33	168	184	194	202	206	210	213	214	216	216	33
34	169	185	195	202	207	210	213	215	216	216	34
35	169	185	195	203	207	210	213	215	216	216	35
36	170	186	196	203	207	211	214	216	217	217	36
37	170	186	196	203	208	211	214	216	217	217	37
38	170	186	196	204	208	211	214	216	217	217	38
39	171	187	197	204	208	212	215	217	218	218	39
40	171	187	197	204	209	212	215	217	218	218	40
41	172	187	197	205	209	212	215	217	218	219	41
42	172	188	198	205	209	213	216	218	219	219	42
43	172	188	198	205	210	213	216	218	219	219	43
44	173	189	198	206	210	213	216	218	220	220	44
45	173	189	199	206	210	214	217	219	220	220	45
46	174	189	199	206	211	214	217	219	220	221	46
47	174	190	200	207	211	214	217	219	221	221	47
48	174	190	200	207	211	215	218	220	221	221	48
49	175	190	200	207	212	215	218	220	221	222	49
50	175	191	201	208	212	215	219	221	222	222	50

Northwest Evaluation Association
Fall Language Usage RIT Score to Percentile Rank Conversion
 (At approximately 4 instructional weeks)

%ile	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
51	175	191	201	208	212	216	219	221	222	222	51
52	176	192	201	208	213	216	219	221	222	223	52
53	176	192	202	209	213	216	219	221	223	223	53
54	177	192	202	209	213	217	220	222	223	223	54
55	177	193	202	209	214	217	220	222	223	224	55
56	177	193	203	210	214	217	220	222	224	224	56
57	178	193	203	210	214	218	221	223	224	225	57
58	178	194	203	210	215	218	221	223	224	225	58
59	179	194	204	211	215	218	221	223	225	225	59
60	179	194	204	211	215	219	222	224	225	226	60
61	179	195	204	211	216	219	222	224	225	226	61
62	180	195	205	212	216	219	222	224	226	227	62
63	180	196	205	212	216	220	223	225	226	227	63
64	181	196	206	212	217	220	223	225	226	227	64
65	181	196	206	213	217	221	223	225	227	228	65
66	181	197	206	213	217	221	224	226	227	228	66
67	182	197	207	214	218	221	224	226	228	229	67
68	182	198	207	214	218	222	225	226	228	229	68
69	183	198	208	214	219	222	225	227	228	229	69
70	183	198	208	215	219	222	225	227	229	230	70
71	184	199	208	215	219	223	226	228	229	230	71
72	184	199	209	216	220	223	226	228	230	231	72
73	185	200	209	216	220	224	226	228	230	231	73
74	185	200	210	216	220	224	227	229	230	232	74
75	185	201	210	217	221	224	227	229	231	232	75
76	186	201	211	217	221	225	228	230	231	233	76
77	186	202	211	218	222	225	228	230	232	233	77
78	187	202	211	218	222	226	229	231	232	234	78
79	188	203	212	219	223	226	229	231	233	234	79
80	188	203	212	219	223	227	229	231	233	235	80
81	189	204	213	220	224	227	230	232	234	235	81
82	189	204	214	220	224	228	230	232	234	236	82
83	190	205	214	221	225	228	231	233	235	236	83
84	190	205	215	221	225	229	231	234	235	237	84
85	191	206	215	222	226	229	232	234	236	238	85
86	192	207	216	222	226	230	233	235	236	238	86
87	193	207	217	223	227	230	233	235	237	239	87
88	193	208	217	224	228	231	234	236	238	240	88
89	194	209	218	224	228	232	235	237	239	241	89
90	195	210	219	225	229	233	235	237	239	241	90
91	196	211	220	226	230	233	236	238	240	242	91
92	197	212	221	227	231	234	237	239	241	243	92
93	198	213	222	228	232	235	238	240	242	245	93
94	199	214	223	229	233	236	239	241	243	246	94
95	201	215	224	230	234	238	240	243	245	247	95
96	203	217	226	232	236	239	242	244	246	249	96
97	205	219	228	234	238	241	244	246	248	252	97
98	208	222	231	237	240	244	247	249	251	256	98
99	214	228	237	242	246	249	252	254	257	261	99

Note: Shaded cell values were generated assuming a normal distribution from the mean and SD of the SCI-weighted RIT scores.

Table B.5. Winter LANGUAGE USAGE

Northwest Evaluation Association
Winter Language Usage RIT Score to Percentile Rank Conversion
 (At approximately 18 instructional weeks)

%ile	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
1	154	166	175	182	186	188	192	192	191	193	1
2	157	169	177	185	188	191	194	195	194	195	2
3	159	171	179	187	190	193	196	196	196	197	3
4	160	172	181	188	192	195	198	198	198	198	4
5	162	174	182	190	193	196	199	199	199	200	5
6	163	175	183	191	194	197	200	200	200	201	6
7	164	176	184	192	195	198	201	201	201	202	7
8	165	177	185	193	196	199	202	202	202	204	8
9	166	178	186	193	197	200	203	203	203	205	9
10	167	179	187	194	198	200	203	204	204	205	10
11	168	179	188	195	198	201	204	205	205	205	11
12	168	180	188	196	199	202	205	205	206	206	12
13	169	181	189	196	200	202	205	206	206	207	13
14	170	181	190	197	200	203	206	206	207	207	14
15	170	182	190	197	201	204	207	207	207	208	15
16	171	182	191	198	201	204	207	208	208	209	16
17	171	183	191	198	202	205	208	208	209	209	17
18	172	183	192	199	202	205	208	209	209	210	18
19	172	184	192	199	203	206	209	209	210	210	19
20	173	185	193	200	203	206	209	210	210	211	20
21	173	185	193	200	204	207	209	210	211	212	21
22	174	185	194	201	204	207	210	210	211	212	22
23	174	186	194	201	205	207	210	211	212	212	23
24	175	186	195	202	205	208	211	211	212	213	24
25	175	187	195	202	205	208	211	212	212	213	25
26	176	187	195	202	206	209	212	212	213	213	26
27	176	188	196	203	206	209	212	213	213	214	27
28	177	188	196	203	207	209	212	213	214	214	28
29	177	188	197	203	207	210	213	213	214	215	29
30	177	189	197	204	207	210	213	214	215	215	30
31	178	189	197	204	208	211	213	214	215	216	31
32	178	190	198	205	208	211	214	214	215	216	32
33	179	190	198	205	208	211	214	215	216	216	33
34	179	190	198	205	209	212	215	215	216	216	34
35	179	191	199	206	209	212	215	216	216	216	35
36	180	191	199	206	209	212	215	216	217	217	36
37	180	192	200	206	210	213	216	216	217	217	37
38	181	192	200	207	210	213	216	217	218	218	38
39	181	192	200	207	210	213	216	217	218	218	39
40	181	193	201	207	211	214	217	217	218	218	40
41	182	193	201	208	211	214	217	218	219	219	41
42	182	193	201	208	211	214	217	218	219	219	42
43	182	194	202	208	212	215	218	218	219	220	43
44	183	194	202	209	212	215	218	219	220	220	44
45	183	194	202	209	212	215	218	219	220	220	45
46	184	195	203	209	213	216	219	219	220	221	46
47	184	195	203	210	213	216	219	220	221	221	47
48	184	195	203	210	213	216	219	220	221	221	48
49	185	196	204	210	214	217	220	220	222	222	49
50	185	196	204	211	214	217	220	221	222	223	50

Northwest Evaluation Association
Winter Language Usage RIT Score to Percentile Rank Conversion
 (At approximately 18 Instructional weeks)

%ile	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
51	185	197	204	211	214	217	220	221	222	<i>223</i>	51
52	186	197	205	211	215	218	221	221	223	<i>224</i>	52
53	186	197	205	212	215	218	221	222	223	<i>224</i>	53
54	186	198	205	212	215	218	221	222	223	<i>224</i>	54
55	187	198	206	212	216	219	221	222	224	<i>224</i>	55
56	187	198	206	213	216	219	222	223	224	<i>224</i>	56
57	188	199	206	213	216	219	222	223	224	<i>225</i>	57
58	188	199	207	213	217	220	222	223	225	<i>225</i>	58
59	188	199	207	214	217	220	223	224	225	<i>226</i>	59
60	189	200	208	214	217	220	223	224	225	<i>226</i>	60
61	189	200	208	214	218	221	223	224	226	<i>226</i>	61
62	189	200	208	215	218	221	224	225	226	<i>227</i>	62
63	190	201	209	215	218	221	224	225	227	<i>227</i>	63
64	190	201	209	215	219	222	225	225	227	<i>228</i>	64
65	191	202	209	216	219	222	225	226	227	<i>228</i>	65
66	191	202	210	216	219	222	225	226	228	<i>228</i>	66
67	191	202	210	216	220	223	226	227	228	<i>229</i>	67
68	192	203	210	217	220	223	226	227	228	<i>229</i>	68
69	192	203	211	217	221	223	226	227	229	<i>230</i>	69
70	193	204	211	218	221	224	227	228	229	<i>230</i>	70
71	193	204	212	218	221	224	227	228	230	<i>231</i>	71
72	193	204	212	218	222	225	227	228	230	<i>231</i>	72
73	194	205	212	219	222	225	228	229	231	<i>231</i>	73
74	194	205	213	219	222	225	228	229	231	<i>232</i>	74
75	195	206	213	219	223	226	229	230	231	<i>232</i>	75
76	195	206	214	220	223	226	229	230	232	<i>233</i>	76
77	196	207	214	220	224	227	229	231	232	<i>233</i>	77
78	196	207	215	221	224	227	230	231	233	<i>234</i>	78
79	197	207	215	221	225	228	230	231	233	<i>234</i>	79
80	197	208	216	222	225	228	231	232	234	<i>235</i>	80
81	198	209	216	222	226	228	231	232	234	<i>236</i>	81
82	198	209	217	223	226	229	232	233	235	<i>236</i>	82
83	199	210	217	223	227	230	232	233	235	<i>237</i>	83
84	199	210	218	224	227	230	233	234	236	<i>238</i>	84
85	200	211	218	224	228	231	233	235	237	<i>238</i>	85
86	201	211	219	225	228	231	234	235	237	<i>239</i>	86
87	201	212	219	225	229	232	235	236	238	<i>240</i>	87
88	202	213	220	226	229	232	235	236	239	<i>241</i>	88
89	203	213	221	227	230	233	236	237	239	<i>241</i>	89
90	204	214	222	228	231	234	237	238	240	<i>242</i>	90
91	204	215	222	228	232	235	237	239	241	<i>243</i>	91
92	205	216	223	229	233	236	238	240	242	<i>244</i>	92
93	207	217	224	230	234	237	239	241	243	<i>246</i>	93
94	208	218	226	231	235	238	240	242	244	<i>247</i>	94
95	209	220	227	233	236	239	242	243	246	<i>248</i>	95
96	211	221	228	234	237	240	243	245	247	<i>250</i>	96
97	213	223	230	236	239	242	245	246	249	<i>253</i>	97
98	216	226	233	239	242	245	248	249	252	<i>257</i>	98
99	222	232	239	244	247	250	253	255	258	<i>261</i>	99

Note: Shaded *italicized* values were interpolated from RIT scores at the corresponding percentiles from fall and spring.

Table B.6. Spring LANGUAGE USAGE

Northwest Evaluation Association
Spring Language Usage RIT Score to Percentile Rank Conversion
 (At approximately 28 instructional weeks)

%ile	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
1	159	170	177	184	187	189	192	191	189	193	1
2	162	173	180	187	190	192	195	194	193	195	2
3	164	175	182	189	192	194	197	196	195	197	3
4	165	176	184	190	193	196	198	198	197	198	4
5	167	178	185	191	195	197	200	199	198	200	5
6	168	179	186	193	196	198	201	201	199	201	6
7	169	180	187	194	197	199	202	202	200	202	7
8	170	181	188	194	198	200	203	202	202	204	8
9	171	182	189	195	198	201	204	203	202	205	9
10	172	182	190	196	199	202	204	204	203	205	10
11	172	183	190	197	200	202	205	205	204	206	11
12	173	184	191	197	201	203	206	205	205	207	12
13	174	185	192	198	201	204	206	206	206	208	13
14	174	185	192	199	202	204	207	207	206	208	14
15	175	186	193	199	202	205	207	207	207	208	15
16	176	186	193	200	203	205	208	208	208	209	16
17	176	187	194	200	203	206	208	208	208	209	17
18	177	187	194	201	204	206	209	209	209	210	18
19	177	188	195	201	204	207	209	209	209	210	19
20	178	188	195	202	205	207	210	210	210	211	20
21	178	189	196	202	205	208	210	210	210	212	21
22	179	189	196	203	206	208	211	211	211	212	22
23	179	190	197	203	206	209	211	211	211	212	23
24	180	190	197	203	207	209	212	212	212	213	24
25	180	191	198	204	207	209	212	212	212	213	25
26	181	191	198	204	207	210	213	213	213	214	26
27	181	192	198	205	208	210	213	213	213	214	27
28	181	192	199	205	208	211	213	213	214	214	28
29	182	192	199	205	209	211	214	214	214	215	29
30	182	193	200	206	209	211	214	214	215	215	30
31	183	193	200	206	209	212	214	215	215	216	31
32	183	194	200	206	210	212	215	215	215	216	32
33	183	194	201	207	210	213	215	215	216	217	33
34	184	194	201	207	210	213	216	216	216	217	34
35	184	195	201	208	211	213	216	216	217	217	35
36	185	195	202	208	211	214	216	217	217	218	36
37	185	195	202	208	212	214	217	217	217	218	37
38	185	196	203	209	212	214	217	217	218	219	38
39	186	196	203	209	212	215	217	218	218	219	39
40	186	196	203	209	213	215	218	218	219	219	40
41	186	197	204	210	213	215	218	218	219	220	41
42	187	197	204	210	213	216	218	219	219	220	42
43	187	198	204	210	214	216	219	219	220	221	43
44	188	198	205	211	214	216	219	219	220	221	44
45	188	198	205	211	214	217	219	220	220	221	45
46	188	199	205	211	215	217	220	220	221	222	46
47	189	199	206	212	215	217	220	220	221	222	47
48	189	199	206	212	215	218	220	221	222	222	48
49	189	200	206	212	216	218	221	221	222	223	49
50	190	200	207	213	216	219	221	222	223	223	50

Northwest Evaluation Association
Spring Language Usage RIT Score to Percentile Rank Conversion
 (At approximately 28 Instructional weeks)

%ile	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
51	190	200	207	213	216	219	221	222	223	223	51
52	190	201	207	213	217	219	222	222	223	224	52
53	191	201	208	214	217	219	222	223	224	224	53
54	191	201	208	214	217	220	222	223	224	225	54
55	191	202	208	214	218	220	223	223	224	225	55
56	192	202	209	215	218	220	223	224	225	225	56
57	192	202	209	215	218	221	223	224	225	226	57
58	193	203	209	215	219	221	224	224	225	226	58
59	193	203	210	216	219	221	224	225	226	227	59
60	193	203	210	216	219	222	224	225	226	227	60
61	194	204	210	216	220	222	225	225	227	227	61
62	194	204	211	217	220	222	225	226	227	228	62
63	194	205	211	217	220	223	225	226	227	228	63
64	195	205	212	217	221	223	226	226	228	229	64
65	195	205	212	218	221	223	226	227	228	229	65
66	196	206	212	218	221	224	226	227	229	229	66
67	196	206	213	218	222	224	227	228	229	230	67
68	196	206	213	219	222	225	227	228	229	230	68
69	197	207	213	219	222	225	228	228	230	231	69
70	197	207	214	219	223	225	228	229	230	231	70
71	198	208	214	220	223	226	228	229	231	232	71
72	198	208	215	220	224	226	229	230	231	232	72
73	198	208	215	221	224	227	229	230	232	232	73
74	199	209	215	221	224	227	229	230	232	233	74
75	199	209	216	221	225	227	230	231	233	233	75
76	200	210	216	222	225	228	230	231	233	234	76
77	200	210	217	222	226	228	231	232	234	234	77
78	201	211	217	223	226	229	231	232	234	235	78
79	201	211	218	223	227	229	232	233	235	235	79
80	202	212	218	224	227	230	232	233	235	236	80
81	202	212	219	224	227	230	233	234	236	237	81
82	203	213	219	225	228	231	233	234	236	237	82
83	203	213	220	225	228	231	234	235	237	238	83
84	204	214	220	226	229	232	234	235	238	238	84
85	205	214	221	226	230	232	235	236	238	239	85
86	205	215	221	227	230	233	235	236	239	240	86
87	206	216	222	227	231	233	236	237	240	240	87
88	207	216	223	228	231	234	237	238	240	241	88
89	207	217	223	229	232	235	237	239	241	242	89
90	208	218	224	230	233	236	238	239	242	243	90
91	209	219	225	230	234	236	239	240	243	244	91
92	210	220	226	231	235	237	240	241	244	245	92
93	211	221	227	232	236	238	241	242	245	246	93
94	212	222	228	233	237	239	242	243	246	248	94
95	214	223	229	235	238	241	243	245	248	249	95
96	215	225	231	236	239	242	245	246	250	251	96
97	217	227	233	238	241	244	247	248	252	254	97
98	220	230	236	241	244	247	249	251	255	258	98
99	226	235	241	246	250	252	255	257	261	262	99

Note: Shaded cell values were generated assuming a normal distribution from the mean and SD of the SCI-weighted RIT scores.

Table B.7. Fall MATHEMATICS

Northwest Evaluation Association
Fall Mathematics RIT Score to Percentile Rank Conversion
 (At approximately 4 instructional weeks)

%ile	Kdg	G 1	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
1	119	133	150	164	175	182	186	189	193	195	193	195	1
2	121	136	152	167	178	185	189	192	196	199	197	198	2
3	122	138	154	169	180	187	191	195	199	201	200	201	3
4	124	139	156	170	181	188	193	197	201	203	202	203	4
5	125	141	157	171	182	190	195	198	202	205	204	205	5
6	126	142	158	173	183	191	196	200	204	207	205	206	6
7	126	143	159	173	184	192	197	201	205	208	207	208	7
8	127	144	160	174	185	193	198	202	206	209	208	209	8
9	128	145	161	175	186	194	199	203	207	210	209	210	9
10	129	145	161	176	187	195	200	204	208	211	210	211	10
11	129	146	162	177	188	195	201	205	209	212	211	212	11
12	130	147	163	177	188	196	201	206	210	213	212	213	12
13	130	147	163	178	189	197	202	207	211	214	213	214	13
14	131	148	164	178	189	197	203	207	212	215	214	215	14
15	131	149	165	179	190	198	203	208	212	215	215	216	15
16	132	149	165	179	191	199	204	209	213	216	216	217	16
17	132	150	166	180	191	199	205	209	214	217	216	218	17
18	133	150	166	180	192	200	205	210	214	217	217	218	18
19	133	151	167	181	192	200	206	211	215	218	218	219	19
20	134	151	167	181	192	201	206	211	216	219	218	220	20
21	134	152	167	182	193	201	207	212	216	219	219	220	21
22	134	152	168	182	193	202	207	212	217	220	220	221	22
23	135	152	168	183	194	202	208	213	217	221	220	222	23
24	135	153	169	183	194	203	208	214	218	221	221	222	24
25	136	153	169	183	195	203	209	214	218	222	221	223	25
26	136	154	170	184	195	203	209	215	219	222	222	223	26
27	136	154	170	184	195	204	210	215	220	223	223	224	27
28	137	155	170	184	196	204	210	216	220	223	223	225	28
29	137	155	171	185	196	205	211	216	221	224	224	225	29
30	137	155	171	185	197	205	211	217	221	224	224	226	30
31	138	156	171	186	197	206	212	217	221	225	225	226	31
32	138	156	172	186	197	206	212	217	222	225	225	227	32
33	138	157	172	186	198	206	213	218	222	226	226	227	33
34	139	157	173	187	198	207	213	218	223	226	226	228	34
35	139	157	173	187	198	207	213	219	223	227	227	228	35
36	139	158	173	187	199	208	214	219	224	227	227	229	36
37	140	158	174	188	199	208	214	220	224	228	228	230	37
38	140	158	174	188	199	208	215	220	225	228	228	230	38
39	140	159	174	188	200	209	215	221	225	229	229	231	39
40	140	159	175	189	200	209	215	221	226	229	229	231	40
41	141	159	175	189	200	209	216	221	226	230	230	232	41
42	141	160	175	189	201	210	216	222	226	230	230	232	42
43	141	160	176	190	201	210	217	222	227	230	231	233	43
44	142	160	176	190	201	210	217	223	227	231	231	233	44
45	142	161	176	190	202	211	217	223	228	231	232	234	45
46	142	161	177	190	202	211	218	224	228	232	232	234	46
47	143	161	177	191	202	212	218	224	229	232	233	235	47
48	143	162	177	191	203	212	219	224	229	233	233	235	48
49	143	162	178	191	203	212	219	225	229	233	233	236	49
50	144	163	178	192	204	213	220	226	230	234	234	236	50

Northwest Evaluation Association
Fall Mathematics RIT Score to Percentile Rank Conversion
 (At approximately 4 instructional weeks)

%ile	Kdg	G 1	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
51	144	163	178	192	204	213	220	226	230	234	234	237	51
52	144	163	179	192	204	213	220	226	231	234	235	237	52
53	144	163	179	193	204	214	220	227	231	235	235	237	53
54	145	164	179	193	205	214	221	227	232	235	236	238	54
55	145	164	179	193	205	214	221	227	232	236	236	238	55
56	145	165	180	194	205	215	222	228	232	236	237	239	56
57	146	165	180	194	206	215	222	228	233	237	237	239	57
58	146	165	180	194	206	215	222	229	233	237	238	240	58
59	146	166	181	195	206	216	223	229	234	238	238	240	59
60	146	166	181	195	207	216	223	230	234	238	239	241	60
61	147	166	181	195	207	217	224	230	235	238	239	242	61
62	147	167	182	196	207	217	224	230	235	239	240	242	62
63	147	167	182	196	208	217	224	231	236	239	240	243	63
64	148	167	183	196	208	218	225	231	236	240	241	243	64
65	148	168	183	197	209	218	225	232	236	240	241	244	65
66	148	168	183	197	209	218	226	232	237	241	242	244	66
67	149	168	184	197	209	219	226	233	237	241	242	245	67
68	149	169	184	198	210	219	227	233	238	242	243	245	68
69	149	169	184	198	210	220	227	234	238	242	243	246	69
70	150	170	185	198	210	220	227	234	239	243	244	246	70
71	150	170	185	199	211	220	228	235	239	243	244	247	71
72	150	170	185	199	211	221	228	235	240	244	245	248	72
73	151	171	186	199	212	221	229	236	240	244	245	248	73
74	151	171	186	200	212	222	229	236	241	245	246	249	74
75	152	172	187	200	212	222	230	237	241	245	247	249	75
76	152	172	187	201	213	223	230	237	242	246	247	250	76
77	152	173	187	201	213	223	231	238	243	247	248	251	77
78	153	173	188	202	214	224	231	238	243	247	248	251	78
79	153	173	188	202	214	224	232	239	244	248	249	252	79
80	154	174	189	202	215	225	232	240	244	248	250	253	80
81	154	174	189	203	215	225	233	240	245	249	250	253	81
82	155	175	190	203	216	226	233	241	246	250	251	254	82
83	155	176	190	204	216	226	234	241	246	250	252	255	83
84	155	176	191	204	217	227	235	242	247	251	253	256	84
85	156	177	191	205	217	227	235	243	248	252	253	257	85
86	157	177	192	205	218	228	236	244	248	253	254	258	86
87	157	178	193	206	218	229	237	244	249	254	255	259	87
88	158	179	193	207	219	229	238	245	250	254	256	260	88
89	158	179	194	207	220	230	238	246	251	255	257	261	89
90	159	180	195	208	220	231	239	247	252	256	258	262	90
91	160	181	195	209	221	232	240	248	253	258	259	263	91
92	161	182	196	210	222	233	241	249	254	259	261	264	92
93	162	183	197	211	223	234	242	251	255	260	262	266	93
94	163	184	198	212	224	235	244	252	257	262	263	268	94
95	164	185	200	213	226	236	245	254	259	263	265	270	95
96	165	187	201	214	227	238	247	256	261	265	267	272	96
97	167	189	203	216	229	240	249	258	263	268	270	276	97
98	171	192	206	219	232	243	252	262	267	272	274	281	98
99	182	197	211	224	237	249	259	268	274	279	282	283	99

Note: Shaded cell values were generated assuming a normal distribution from the mean and SD of the SCI-weighted RIT scores.

Table B.8. Winter MATHEMATICS

Northwest Evaluation Association
Winter Mathematics RIT Score to Percentile Rank Conversion
 (At approximately 18 Instructional weeks)

%ile	Kdg	G 1	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
1	123	144	158	171	179	186	188	191	195	195	194	196	1
2	125	147	161	173	182	189	192	194	199	199	198	199	2
3	127	149	162	175	184	191	194	197	201	202	201	202	3
4	129	150	164	177	185	193	196	199	203	204	203	204	4
5	130	151	165	178	187	194	197	200	205	206	205	206	5
6	131	152	166	179	188	196	199	202	206	207	207	207	6
7	132	153	167	180	189	197	200	203	208	208	208	209	7
8	133	154	168	181	190	198	201	204	209	210	209	210	8
9	133	155	169	181	191	198	202	205	210	211	210	211	9
10	134	156	169	182	191	199	203	206	211	212	212	212	10
11	135	156	170	183	192	200	204	207	212	213	213	213	11
12	135	157	171	183	193	201	204	208	213	214	213	214	12
13	136	158	171	184	193	201	205	209	213	215	214	215	13
14	137	158	172	185	194	202	206	210	214	215	215	216	14
15	137	159	172	185	195	203	206	210	215	216	216	217	15
16	138	159	173	186	195	203	207	211	216	217	217	218	16
17	138	160	173	186	196	204	208	212	216	218	217	218	17
18	139	160	174	187	196	204	208	212	217	218	218	219	18
19	139	161	174	187	197	205	209	213	218	219	219	220	19
20	140	161	175	188	197	205	209	214	218	220	220	221	20
21	140	162	175	188	198	206	210	214	219	220	220	221	21
22	140	162	176	188	198	206	211	215	219	221	221	222	22
23	141	163	176	189	198	207	211	215	220	221	221	223	23
24	141	163	176	189	199	207	212	216	220	222	222	223	24
25	142	163	177	190	199	208	212	216	221	223	223	224	25
26	142	164	177	190	200	208	213	217	221	223	223	224	26
27	142	164	178	190	200	209	213	218	222	224	224	225	27
28	143	165	178	191	201	209	213	218	223	224	224	226	28
29	143	165	178	191	201	210	214	219	223	225	225	226	29
30	144	165	179	192	201	210	214	219	224	225	225	227	30
31	144	166	179	192	202	210	215	219	224	226	226	227	31
32	144	166	179	192	202	211	215	220	224	226	226	228	32
33	145	166	180	193	202	211	216	220	225	227	227	228	33
34	145	167	180	193	203	212	216	221	225	227	228	229	34
35	145	167	180	193	203	212	217	221	226	228	228	229	35
36	146	167	181	194	204	212	217	222	226	228	229	230	36
37	146	168	181	194	204	213	217	222	227	229	229	230	37
38	146	168	181	194	204	213	218	223	227	229	230	231	38
39	147	168	182	195	205	213	218	223	228	230	230	231	39
40	147	169	182	195	205	214	219	224	228	230	230	232	40
41	147	169	182	195	205	214	219	224	229	231	231	232	41
42	148	169	183	196	206	215	219	224	229	231	231	233	42
43	148	170	183	196	206	215	220	225	229	231	232	233	43
44	148	170	183	196	206	215	220	225	230	232	232	234	44
45	149	170	184	197	207	216	221	226	230	232	233	234	45
46	149	171	184	197	207	216	221	226	231	233	233	235	46
47	149	171	184	197	207	216	221	227	231	233	234	235	47
48	150	171	185	198	208	217	222	227	232	234	234	236	48
49	150	172	185	198	208	217	222	227	232	234	235	236	49
50	150	172	185	198	209	218	223	228	233	235	235	236	50

Northwest Evaluation Association
Winter Mathematics RIT Score to Percentile Rank Conversion
 (At approximately 18 Instructional weeks)

%ile	Kdg	G 1	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
51	151	172	185	198	209	218	223	228	233	235	236	237	51
52	151	173	186	199	209	218	223	229	233	236	236	238	52
53	151	173	186	199	209	219	224	229	234	236	237	238	53
54	152	173	186	199	210	219	224	230	234	236	237	239	54
55	152	174	187	200	210	219	224	230	235	237	238	239	55
56	152	174	187	200	210	220	225	230	235	237	238	240	56
57	153	174	187	200	211	220	225	231	236	238	239	240	57
58	153	175	188	201	211	220	226	231	236	238	239	241	58
59	153	175	188	201	211	221	226	232	236	239	240	241	59
60	154	175	188	201	212	221	226	232	237	239	240	242	60
61	154	176	189	202	212	222	227	233	237	240	240	242	61
62	154	176	189	202	212	222	227	233	238	240	241	243	62
63	155	176	189	202	213	222	228	234	238	241	241	243	63
64	155	177	190	203	213	223	228	234	239	241	242	244	64
65	155	177	190	203	214	223	229	235	239	242	242	244	65
66	156	177	190	203	214	223	229	235	240	242	243	245	66
67	156	178	191	204	214	224	229	235	240	243	244	246	67
68	156	178	191	204	215	224	230	236	241	243	244	246	68
69	157	178	191	204	215	225	230	236	241	244	245	247	69
70	157	179	192	205	215	225	231	237	242	244	245	247	70
71	158	179	192	205	216	225	231	237	242	245	246	248	71
72	158	180	192	206	216	226	232	238	243	245	246	248	72
73	158	180	193	206	217	226	232	238	243	246	247	249	73
74	159	180	193	206	217	227	233	239	244	246	247	250	74
75	159	181	194	207	217	227	233	239	244	247	248	250	75
76	160	181	194	207	218	228	234	240	245	247	249	251	76
77	160	182	194	208	218	228	234	241	245	248	249	252	77
78	160	182	195	208	219	229	235	241	246	249	250	252	78
79	161	182	195	208	219	229	235	242	246	249	250	253	79
80	161	183	196	209	220	230	236	242	247	250	251	254	80
81	162	183	196	209	220	230	236	243	248	251	252	254	81
82	162	184	197	210	221	231	237	244	248	251	253	255	82
83	163	184	197	210	221	231	237	244	249	252	253	256	83
84	163	185	198	211	222	232	238	245	250	253	254	257	84
85	164	185	198	211	222	233	239	246	251	253	255	258	85
86	165	186	199	212	223	233	239	247	251	254	256	258	86
87	165	187	199	213	224	234	240	247	252	255	257	259	87
88	166	187	200	213	224	235	241	248	253	256	257	260	88
89	167	188	201	214	225	235	242	249	254	257	258	261	89
90	167	189	201	215	226	236	243	250	255	258	260	263	90
91	168	190	202	215	227	237	244	251	256	259	261	264	91
92	169	190	203	216	228	238	245	252	257	260	262	265	92
93	170	191	204	217	229	239	246	254	258	262	263	267	93
94	171	192	205	218	230	240	247	255	260	263	265	269	94
95	173	194	206	219	231	242	249	257	261	265	267	271	95
96	174	195	208	221	233	243	251	259	263	267	269	273	96
97	177	197	209	223	235	245	253	261	266	270	272	277	97
98	180	200	212	225	237	248	256	265	270	273	276	282	98
99	193	205	217	230	243	254	262	272	277	281	283	284	99

Notes: Shaded values were generated assuming a normal distribution from the mean and SD of the SCI-weighted RIT scores. Shaded *italicized* values were interpolated from RIT scores at the corresponding percentiles from fall and spring.

Table B.9. Spring MATHEMATICS

Northwest Evaluation Association
Spring Mathematics RIT Score to Percentile Rank Conversion
 (At approximately 28 Instructional weeks)

%ile	Kdg	G 1	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
1	124	151	164	174	181	188	190	192	196	195	194	197	1
2	127	154	166	177	184	191	194	196	199	199	198	200	2
3	129	155	168	179	187	194	196	198	202	202	201	203	3
4	131	157	170	181	188	195	198	200	204	204	203	205	4
5	132	158	171	182	190	197	199	202	206	206	205	207	5
6	133	159	172	183	191	198	201	203	207	207	207	208	6
7	135	160	173	184	192	199	202	205	209	208	208	210	7
8	136	161	174	185	193	200	203	206	210	210	210	211	8
9	136	162	174	186	194	201	204	207	211	211	211	212	9
10	137	163	175	186	194	202	205	208	212	212	212	213	10
11	138	163	176	187	195	203	206	209	213	213	213	214	11
12	139	164	176	188	196	203	207	210	214	214	214	215	12
13	139	164	177	188	196	204	207	211	215	215	215	216	13
14	140	165	178	189	197	205	208	211	215	216	216	217	14
15	141	166	178	189	198	205	209	212	216	216	216	218	15
16	141	166	179	190	198	206	209	213	217	217	217	219	16
17	142	167	179	190	199	207	210	214	217	218	218	219	17
18	142	167	180	191	199	207	211	214	218	219	219	220	18
19	143	168	180	191	200	208	211	215	219	219	219	221	19
20	144	168	180	192	200	208	212	216	219	220	220	222	20
21	144	168	181	192	201	209	212	216	220	221	221	222	21
22	145	169	181	193	201	209	213	217	221	221	221	223	22
23	145	169	182	193	202	210	214	217	221	222	222	224	23
24	146	170	182	194	202	210	214	218	222	223	223	224	24
25	146	170	183	194	203	211	215	218	222	223	223	225	25
26	146	171	183	194	203	211	215	219	223	224	224	226	26
27	147	171	183	195	204	212	216	220	223	224	225	226	27
28	147	171	184	195	204	212	216	220	224	225	225	227	28
29	148	172	184	196	204	213	216	221	224	225	226	227	29
30	148	172	184	196	205	213	217	221	225	226	226	228	30
31	149	172	185	196	205	213	217	222	225	226	227	228	31
32	149	173	185	197	206	214	218	222	226	227	227	229	32
33	149	173	185	197	206	214	218	223	226	228	228	230	33
34	150	173	186	197	206	215	219	223	227	228	228	230	34
35	150	174	186	198	207	215	219	223	227	229	229	231	35
36	151	174	186	198	207	215	220	224	228	229	229	231	36
37	151	174	187	198	208	216	220	224	228	230	230	232	37
38	151	175	187	199	208	216	220	225	229	230	230	232	38
39	152	175	187	199	208	217	221	225	229	231	231	233	39
40	152	175	188	199	209	217	221	226	230	231	231	233	40
41	152	176	188	200	209	217	222	226	230	231	232	234	41
42	153	176	188	200	209	218	222	227	231	232	232	234	42
43	153	176	189	200	210	218	222	227	231	232	233	235	43
44	154	177	189	201	210	218	223	228	232	233	233	235	44
45	154	177	189	201	210	219	223	228	232	233	234	236	45
46	154	177	190	201	211	219	224	228	232	234	234	236	46
47	155	178	190	202	211	220	224	229	233	234	235	237	47
48	155	178	190	202	211	220	224	229	233	235	235	237	48
49	155	178	191	202	212	220	225	230	234	235	236	238	49
50	156	179	191	203	212	221	226	230	234	236	237	238	50

Northwest Evaluation Association
Spring Mathematics RIT Score to Percentile Rank Conversion
 (At approximately 28 instructional weeks)

%ile	Kdg	G 1	G 2	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	G 11	%ile
51	156	179	191	203	213	221	226	231	235	236	237	239	51
52	157	179	192	203	213	221	226	231	235	237	237	239	52
53	157	180	192	204	213	222	227	232	236	237	238	240	53
54	157	180	192	204	214	222	227	232	236	238	238	240	54
55	158	180	193	204	214	223	227	232	236	238	239	241	55
56	158	181	193	205	214	223	228	233	237	239	239	241	56
57	158	181	193	205	215	223	228	233	237	239	240	242	57
58	159	181	193	205	215	224	229	234	238	240	240	242	58
59	159	182	194	206	215	224	229	234	238	240	241	243	59
60	159	182	194	206	216	224	229	235	239	240	241	243	60
61	160	182	194	206	216	225	230	235	239	241	242	244	61
62	160	183	195	207	216	225	230	236	240	241	242	244	62
63	161	183	195	207	217	226	231	236	240	242	243	245	63
64	161	183	195	207	217	226	231	237	241	242	243	245	64
65	161	184	196	208	218	226	231	237	241	243	244	246	65
66	162	184	196	208	218	227	232	237	242	243	244	247	66
67	162	184	196	208	218	227	232	238	242	244	245	247	67
68	163	185	197	209	219	228	233	238	243	245	245	248	68
69	163	185	197	209	219	228	233	239	243	245	246	248	69
70	163	185	198	210	220	228	234	239	244	246	247	249	70
71	164	186	198	210	220	229	234	240	244	246	247	249	71
72	164	186	198	210	220	229	235	240	245	247	248	250	72
73	165	186	199	211	221	230	235	241	245	247	248	251	73
74	165	187	199	211	221	230	236	242	246	248	249	251	74
75	166	187	199	212	222	231	236	242	246	248	249	252	75
76	166	188	200	212	222	231	237	243	247	249	250	253	76
77	167	188	200	212	223	232	237	243	247	250	251	253	77
78	167	189	201	213	223	232	238	244	248	250	251	254	78
79	168	189	201	213	224	233	238	244	249	251	252	255	79
80	168	189	202	214	224	233	239	245	249	252	253	255	80
81	169	190	202	214	225	234	239	246	250	252	253	256	81
82	169	190	203	215	225	234	240	246	251	253	254	257	82
83	170	191	203	215	226	235	241	247	251	254	255	258	83
84	170	191	204	216	226	236	241	248	252	255	256	258	84
85	171	192	204	216	227	236	242	249	253	255	257	259	85
86	172	193	205	217	228	237	243	249	253	256	257	260	86
87	172	193	205	218	228	238	244	250	254	257	258	261	87
88	173	194	206	218	229	238	244	251	255	258	259	262	88
89	174	194	207	219	230	239	245	252	256	259	260	263	89
90	175	195	207	220	230	240	246	253	257	260	261	265	90
91	176	196	208	220	231	241	247	254	258	261	263	266	91
92	177	197	209	221	232	242	248	255	259	263	264	267	92
93	178	198	210	222	233	243	249	257	261	264	265	269	93
94	179	199	211	223	234	244	251	258	262	265	267	271	94
95	180	200	212	225	236	246	252	260	264	267	269	273	95
96	182	202	214	226	237	247	254	262	266	269	271	275	96
97	184	203	215	228	240	250	257	264	269	272	274	279	97
98	187	206	218	231	243	253	260	268	272	276	278	284	98
99	193	211	223	236	248	259	266	275	279	284	286	286	99

Note: Shaded cell values were generated assuming a normal distribution from the mean and SD of the SCI-weighted RIT scores.

Table B.10. End-of-Course MATHEMATICS

**Northwest Evaluation Association
End-of-Course Upper Level Mathematics RIT Score to
Percentile Rank Conversion**

%ile	Algebra 1	Geometry	Algebra 2	%ile
1	200	209	213	1
2	205	214	217	2
3	208	217	220	3
4	210	219	222	4
5	212	221	223	5
6	213	223	225	6
7	215	224	226	7
8	216	225	227	8
9	217	226	228	9
10	218	227	229	10
11	219	228	230	11
12	220	229	231	12
13	221	230	232	13
14	222	231	232	14
15	222	232	233	15
16	223	232	234	16
17	224	233	234	17
18	224	234	235	18
19	225	234	236	19
20	226	235	236	20
21	226	236	237	21
22	227	236	237	22
23	228	237	238	23
24	228	237	238	24
25	229	238	239	25
26	229	238	239	26
27	230	239	240	27
28	230	239	240	28
29	231	240	241	29
30	231	240	241	30
31	232	241	242	31
32	232	241	242	32
33	233	242	243	33
34	233	242	243	34
35	234	243	244	35
36	234	243	244	36
37	235	244	244	37
38	235	244	245	38
39	235	245	245	39
40	236	245	246	40
41	236	246	246	41
42	237	246	246	42
43	237	246	247	43
44	238	247	247	44
45	238	247	248	45
46	239	248	248	46
47	239	248	248	47
48	239	249	249	48
49	240	249	249	49
50	240	249	250	50
51	241	250	250	51

**Northwest Evaluation Association
End-of-Course Upper Level Mathematics RIT Score to
Percentile Rank Conversion**

%ile	Algebra 1	Geometry	Algebra 2	%ile
52	241	250	251	52
53	242	251	251	53
54	242	251	251	54
55	242	252	252	55
56	243	252	252	56
57	243	253	253	57
58	244	253	253	58
59	244	253	253	59
60	245	254	254	60
61	245	254	254	61
62	246	255	255	62
63	246	255	255	63
64	246	256	255	64
65	247	256	256	65
66	247	257	256	66
67	248	257	257	67
68	248	258	257	68
69	249	258	258	69
70	249	259	258	70
71	250	259	259	71
72	250	260	259	72
73	251	260	259	73
74	251	261	260	74
75	252	261	260	75
76	252	262	261	76
77	253	262	262	77
78	254	263	262	78
79	254	263	263	79
80	255	264	263	80
81	255	265	264	81
82	256	265	264	82
83	257	266	265	83
84	257	267	266	84
85	258	267	266	85
86	259	268	267	86
87	260	269	268	87
88	261	270	268	88
89	261	271	269	89
90	262	272	270	90
91	263	273	271	91
92	264	274	272	92
93	266	275	273	93
94	267	276	275	94
95	269	278	276	95
96	270	280	278	96
97	273	282	280	97
98	276	285	283	98
99	280	290	287	99

Table B.11. Fall GENERAL SCIENCE

Northwest Evaluation Association
Fall General Science RIT Score to Percentile Rank Conversion
 (At approximately 4 Instructional weeks)

%ile	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	%ile
1	165	173	178	181	183	185	187	187	1
2	168	175	180	183	185	188	189	190	2
3	169	177	181	185	187	190	191	192	3
4	171	178	183	186	188	191	192	193	4
5	172	179	184	187	189	192	193	194	5
6	172	180	185	188	190	193	194	195	6
7	173	181	185	189	191	194	195	196	7
8	174	182	186	190	192	195	196	197	8
9	175	182	187	190	193	195	197	198	9
10	175	183	187	191	193	196	198	199	10
11	176	183	188	192	194	197	198	199	11
12	176	184	189	192	195	197	199	200	12
13	177	184	189	193	195	198	199	201	13
14	177	185	189	193	196	198	200	201	14
15	178	185	190	194	196	199	200	202	15
16	178	186	190	194	197	199	201	202	16
17	179	186	191	195	197	200	201	203	17
18	179	187	191	195	197	200	202	203	18
19	179	187	192	195	198	201	202	204	19
20	180	187	192	196	198	201	203	204	20
21	180	188	192	196	199	202	203	204	21
22	180	188	193	197	199	202	204	205	22
23	181	188	193	197	199	202	204	205	23
24	181	189	193	197	200	203	204	206	24
25	182	189	194	198	200	203	205	206	25
26	182	189	194	198	201	203	205	207	26
27	182	190	194	198	201	204	206	207	27
28	182	190	195	199	201	204	206	207	28
29	183	190	195	199	202	204	206	208	29
30	183	191	195	199	202	205	207	208	30
31	183	191	196	200	202	205	207	208	31
32	184	191	196	200	203	205	207	209	32
33	184	191	196	200	203	206	208	209	33
34	184	192	197	200	203	206	208	209	34
35	185	192	197	201	203	206	208	210	35
36	185	192	197	201	204	207	209	210	36
37	185	193	197	201	204	207	209	210	37
38	185	193	198	202	204	207	209	211	38
39	186	193	198	202	205	208	209	211	39
40	186	193	198	202	205	208	210	211	40
41	186	194	199	203	205	208	210	212	41
42	186	194	199	203	206	208	210	212	42
43	187	194	199	203	206	209	211	212	43
44	187	194	199	203	206	209	211	213	44
45	187	195	200	204	206	209	211	213	45
46	188	195	200	204	207	210	212	213	46
47	188	195	200	204	207	210	212	214	47
48	188	196	200	204	207	210	212	214	48
49	188	196	201	205	208	211	213	214	49
50	189	196	201	205	208	211	213	215	50

Northwest Evaluation Association
Fall General Science RIT Score to Percentile Rank Conversion
 (At approximately 4 instructional weeks)

%ile	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	%ile
51	189	196	201	205	208	211	213	215	51
52	189	197	201	206	208	211	213	215	52
53	189	197	202	206	209	212	214	216	53
54	190	197	202	206	209	212	214	216	54
55	190	197	202	206	209	212	214	216	55
56	190	198	203	207	210	213	215	216	56
57	191	198	203	207	210	213	215	217	57
58	191	198	203	207	210	213	215	217	58
59	191	198	203	208	210	213	216	217	59
60	191	199	204	208	211	214	216	218	60
61	192	199	204	208	211	214	216	218	61
62	192	199	204	208	211	214	217	218	62
63	192	200	204	209	212	215	217	219	63
64	192	200	205	209	212	215	217	219	64
65	193	200	205	209	212	215	217	219	65
66	193	200	205	210	213	216	218	220	66
67	193	201	206	210	213	216	218	220	67
68	194	201	206	210	213	216	218	220	68
69	194	201	206	211	214	217	219	221	69
70	194	202	207	211	214	217	219	221	70
71	195	202	207	211	214	217	220	222	71
72	195	202	207	211	215	218	220	222	72
73	195	202	208	212	215	218	220	222	73
74	195	203	208	212	215	218	221	223	74
75	196	203	208	213	216	219	221	223	75
76	196	203	209	213	216	219	221	223	76
77	197	204	209	213	216	219	222	224	77
78	197	204	209	214	217	220	222	224	78
79	197	204	210	214	217	220	223	225	79
80	198	205	210	214	218	221	223	225	80
81	198	205	210	215	218	221	223	226	81
82	198	206	211	215	218	222	224	226	82
83	199	206	211	216	219	222	224	227	83
84	199	206	212	216	219	223	225	227	84
85	200	207	212	217	220	223	225	228	85
86	200	207	213	217	220	224	226	228	86
87	201	208	213	218	221	224	227	229	87
88	201	208	214	218	221	225	227	229	88
89	202	209	214	219	222	225	228	230	89
90	202	210	215	219	223	226	228	231	90
91	203	210	215	220	223	227	229	232	91
92	204	211	216	221	224	227	230	232	92
93	205	212	217	222	225	228	231	233	93
94	205	213	218	223	226	229	232	234	94
95	206	214	219	224	227	230	233	236	95
96	208	215	220	225	228	232	235	237	96
97	209	216	222	227	230	234	236	239	97
98	212	219	224	229	232	236	239	242	98
99	216	223	228	233	237	241	244	247	99

Table B.12. Winter GENERAL SCIENCE

Northwest Evaluation Association
Winter General Science RIT Score to Percentile Rank Conversion
 (At approximately 18 Instructional weeks)

%ile	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	%ile
1	170	176	180	183	185	186	187	188	1
2	172	178	182	185	187	189	189	190	2
3	173	180	184	187	189	191	191	192	3
4	175	181	185	188	190	192	192	194	4
5	176	182	186	189	191	193	194	195	5
6	176	183	187	190	192	194	195	196	6
7	177	183	188	191	193	195	196	197	7
8	178	184	189	191	194	196	196	198	8
9	179	185	189	192	194	197	197	199	9
10	179	185	190	193	195	197	198	199	10
11	180	186	190	193	195	198	198	200	11
12	180	186	191	194	196	198	199	201	12
13	181	187	191	194	197	199	200	201	13
14	181	187	192	195	197	199	200	202	14
15	182	188	192	195	198	200	201	202	15
16	182	188	193	196	198	200	201	203	16
17	182	189	193	196	198	201	202	203	17
18	183	189	194	197	199	201	202	204	18
19	183	189	194	197	199	202	203	204	19
20	184	190	194	197	200	202	203	205	20
21	184	190	195	198	200	203	203	205	21
22	184	190	195	198	200	203	204	206	22
23	185	191	196	198	201	203	204	206	23
24	185	191	196	199	201	204	205	206	24
25	185	191	196	199	202	204	205	207	25
26	186	192	197	199	202	205	205	207	26
27	186	192	197	200	202	205	206	208	27
28	186	192	197	200	203	205	206	208	28
29	186	193	197	200	203	206	207	208	29
30	187	193	198	201	203	206	207	209	30
31	187	193	198	201	204	206	207	209	31
32	187	194	198	201	204	207	208	209	32
33	188	194	199	202	204	207	208	210	33
34	188	194	199	202	205	207	208	210	34
35	188	194	199	202	205	208	209	210	35
36	188	195	200	203	205	208	209	211	36
37	189	195	200	203	205	208	209	211	37
38	189	195	200	203	206	208	210	211	38
39	189	195	200	203	206	209	210	212	39
40	190	196	201	204	206	209	210	212	40
41	190	196	201	204	207	209	210	212	41
42	190	196	201	204	207	210	211	213	42
43	190	197	201	205	207	210	211	213	43
44	191	197	202	205	207	210	211	213	44
45	191	197	202	205	208	211	212	214	45
46	191	197	202	205	208	211	212	214	46
47	191	198	203	206	208	211	212	214	47
48	192	198	203	206	209	211	213	215	48
49	192	198	203	206	209	212	213	215	49
50	192	199	204	207	209	212	214	216	50

Northwest Evaluation Association
Winter General Science RIT Score to Percentile Rank Conversion
 (At approximately 18 Instructional weeks)

%ile	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	%ile
51	192	199	204	207	209	212	214	216	51
52	193	199	204	207	210	213	214	216	52
53	193	199	204	207	210	213	214	216	53
54	193	199	204	208	210	213	214	217	54
55	193	200	205	208	211	214	215	217	55
56	194	200	205	208	211	214	215	217	56
57	194	200	205	208	211	214	215	217	57
58	194	200	205	209	211	214	216	218	58
59	194	201	206	209	212	215	216	218	59
60	195	201	206	209	212	215	216	218	60
61	195	201	206	209	212	215	217	219	61
62	195	201	207	210	213	216	217	219	62
63	196	202	207	210	213	216	217	219	63
64	196	202	207	210	213	216	218	220	64
65	196	202	207	211	213	217	218	220	65
66	196	203	208	211	214	217	218	220	66
67	197	203	208	211	214	217	219	221	67
68	197	203	208	212	214	218	219	221	68
69	197	203	209	212	215	218	219	222	69
70	198	204	209	212	215	218	220	222	70
71	198	204	209	212	215	219	220	222	71
72	198	204	210	213	216	219	220	223	72
73	198	205	210	213	216	219	221	223	73
74	199	205	210	213	216	220	221	223	74
75	199	205	211	214	217	220	222	224	75
76	199	206	211	214	217	220	222	224	76
77	200	206	211	214	218	221	222	225	77
78	200	206	212	215	218	221	223	225	78
79	200	207	212	215	218	222	223	225	79
80	201	207	212	216	219	222	224	226	80
81	201	207	213	216	219	222	224	226	81
82	202	208	213	216	220	223	224	227	82
83	202	208	214	217	220	223	225	227	83
84	202	209	214	217	220	224	225	228	84
85	203	209	214	218	221	224	226	228	85
86	203	210	215	218	221	225	227	229	86
87	204	210	215	219	222	225	227	230	87
88	204	211	216	219	223	226	228	230	88
89	205	211	217	220	223	227	228	231	89
90	205	212	217	221	224	227	229	232	90
91	206	212	218	221	224	228	230	232	91
92	207	213	219	222	225	229	231	233	92
93	208	214	219	223	226	230	232	234	93
94	208	215	220	224	227	231	233	235	94
95	209	216	221	225	228	232	234	236	95
96	211	217	223	226	229	233	235	238	96
97	212	218	224	228	231	235	237	240	97
98	214	220	226	230	233	237	240	242	98
99	218	225	231	234	238	242	244	248	99

Table B.13. Spring GENERAL SCIENCE

Northwest Evaluation Association
Spring General Science RIT Score to Percentile Rank Conversion
 (At approximately 28 Instructional weeks)

%ile	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	%ile
1	173	178	181	184	185	186	186	187	1
2	175	180	183	186	188	189	189	190	2
3	176	181	185	188	190	191	191	192	3
4	177	183	186	189	191	192	192	193	4
5	178	184	187	190	192	193	193	195	5
6	179	185	188	191	193	194	195	196	6
7	180	185	189	192	194	195	195	197	7
8	181	186	190	192	195	196	196	198	8
9	181	187	190	193	195	197	197	198	9
10	182	187	191	194	196	198	198	199	10
11	183	188	192	194	197	198	199	200	11
12	183	188	192	195	197	199	199	201	12
13	184	189	193	195	198	199	200	201	13
14	184	189	193	196	198	200	200	202	14
15	184	190	194	196	199	201	201	202	15
16	185	190	194	197	199	201	201	203	16
17	185	191	194	197	200	202	202	203	17
18	186	191	195	198	200	202	202	204	18
19	186	191	195	198	201	202	203	204	19
20	186	192	196	199	201	203	203	205	20
21	187	192	196	199	201	203	204	205	21
22	187	192	196	199	202	204	204	206	22
23	188	193	197	200	202	204	205	206	23
24	188	193	197	200	202	205	205	207	24
25	188	193	198	200	203	205	205	207	25
26	188	194	198	201	203	205	206	207	26
27	189	194	198	201	204	206	206	208	27
28	189	194	199	201	204	206	207	208	28
29	189	195	199	202	204	206	207	209	29
30	190	195	199	202	205	207	207	209	30
31	190	195	199	202	205	207	208	209	31
32	190	196	200	203	205	207	208	210	32
33	191	196	200	203	205	208	208	210	33
34	191	196	200	203	206	208	209	210	34
35	191	196	201	204	206	208	209	211	35
36	191	197	201	204	206	209	209	211	36
37	192	197	201	204	207	209	210	212	37
38	192	197	202	204	207	209	210	212	38
39	192	198	202	205	207	210	210	212	39
40	193	198	202	205	208	210	211	213	40
41	193	198	202	205	208	210	211	213	41
42	193	198	203	206	208	211	211	213	42
43	193	199	203	206	209	211	212	214	43
44	194	199	203	206	209	211	212	214	44
45	194	199	204	206	209	212	212	214	45
46	194	199	204	207	209	212	213	215	46
47	194	200	204	207	210	212	213	215	47
48	195	200	204	207	210	213	213	215	48
49	195	200	205	207	210	213	214	216	49
50	195	201	205	208	211	213	214	216	50

Northwest Evaluation Association
Spring General Science RIT Score to Percentile Rank Conversion
 (At approximately 28 Instructional weeks)

%ile	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	%ile
51	195	201	205	208	211	213	214	216	51
52	196	201	205	208	211	214	215	217	52
53	196	201	206	209	211	214	215	217	53
54	196	201	206	209	212	214	215	217	54
55	196	202	206	209	212	215	216	218	55
56	197	202	207	209	212	215	216	218	56
57	197	202	207	210	213	215	216	218	57
58	197	203	207	210	213	216	217	219	58
59	197	203	207	210	213	216	217	219	59
60	198	203	208	211	213	216	217	219	60
61	198	203	208	211	214	217	218	220	61
62	198	204	208	211	214	217	218	220	62
63	199	204	209	211	214	217	218	220	63
64	199	204	209	212	215	218	219	221	64
65	199	204	209	212	215	218	219	221	65
66	199	205	210	212	215	218	219	221	66
67	200	205	210	213	216	219	220	222	67
68	200	205	210	213	216	219	220	222	68
69	200	206	210	213	216	219	220	222	69
70	201	206	211	214	217	220	221	223	70
71	201	206	211	214	217	220	221	223	71
72	201	207	211	214	217	220	221	224	72
73	202	207	212	215	218	221	222	224	73
74	202	207	212	215	218	221	222	224	74
75	202	207	212	215	218	221	223	225	75
76	202	208	213	216	219	222	223	225	76
77	203	208	213	216	219	222	223	226	77
78	203	209	214	216	219	223	224	226	78
79	204	209	214	217	220	223	224	227	79
80	204	209	214	217	220	224	225	227	80
81	204	210	215	217	221	224	225	227	81
82	205	210	215	218	221	224	226	228	82
83	205	210	216	218	222	225	226	229	83
84	206	211	216	219	222	225	227	229	84
85	206	211	216	219	223	226	227	230	85
86	206	212	217	220	223	227	228	230	86
87	207	212	217	220	224	227	228	231	87
88	207	213	218	221	224	228	229	231	88
89	208	213	219	221	225	228	230	232	89
90	209	214	219	222	225	229	230	233	90
91	209	215	220	223	226	230	231	234	91
92	210	215	221	223	227	231	232	235	92
93	211	216	222	224	228	232	233	236	93
94	212	217	222	225	229	233	234	237	94
95	213	218	224	226	230	234	235	238	95
96	214	219	225	228	231	235	237	240	96
97	215	221	226	229	233	237	239	241	97
98	217	223	229	232	235	240	241	244	98
99	222	227	233	236	240	245	247	250	99

Table B.14.Fall CONCEPTS & PROCESSES

Northwest Evaluation Association
Fall Science Concepts & Processes RIT Score to Percentile Rank Conversion
 (At approximately 4 Instructional weeks)

%ile	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	%ile
1	165	174	179	182	184	187	187	189	1
2	167	176	181	184	186	189	189	191	2
3	169	177	183	186	188	190	191	193	3
4	170	178	184	187	189	192	192	194	4
5	171	179	185	188	190	193	193	195	5
6	172	180	185	189	191	194	194	196	6
7	173	181	186	189	192	194	195	197	7
8	173	182	187	190	192	195	196	198	8
9	174	182	187	191	193	196	197	199	9
10	175	183	188	191	194	196	198	199	10
11	175	183	188	192	194	197	198	200	11
12	176	184	189	192	195	198	199	200	12
13	176	184	189	193	195	198	199	201	13
14	177	185	190	193	196	199	200	201	14
15	177	185	190	194	196	199	200	202	15
16	178	185	191	194	197	199	201	202	16
17	178	186	191	195	197	200	201	203	17
18	178	186	191	195	197	200	202	203	18
19	179	187	192	195	198	201	202	204	19
20	179	187	192	196	198	201	203	204	20
21	179	187	192	196	199	201	203	205	21
22	180	188	193	196	199	202	204	205	22
23	180	188	193	197	199	202	204	205	23
24	180	188	193	197	200	202	204	206	24
25	181	188	194	197	200	203	205	206	25
26	181	189	194	198	200	203	205	206	26
27	181	189	194	198	201	203	206	207	27
28	182	189	195	198	201	204	206	207	28
29	182	190	195	199	201	204	206	207	29
30	182	190	195	199	202	204	207	208	30
31	183	190	195	199	202	205	207	208	31
32	183	190	196	199	202	205	207	208	32
33	183	191	196	200	202	205	208	209	33
34	183	191	196	200	203	206	208	209	34
35	184	191	196	200	203	206	208	209	35
36	184	192	197	201	203	206	209	210	36
37	184	192	197	201	204	206	209	210	37
38	185	192	197	201	204	207	209	210	38
39	185	192	198	201	204	207	209	210	39
40	185	193	198	202	204	207	210	211	40
41	185	193	198	202	205	208	210	211	41
42	186	193	198	202	205	208	210	211	42
43	186	193	199	202	205	208	211	212	43
44	186	194	199	203	206	208	211	212	44
45	186	194	199	203	206	209	211	212	45
46	187	194	199	203	206	209	212	212	46
47	187	194	199	203	206	209	212	213	47
48	187	195	200	204	207	209	212	213	48
49	187	195	200	204	207	210	213	213	49
50	188	195	201	205	207	210	213	214	50

Northwest Evaluation Association
Fall Science Concepts & Processes RIT Score to Percentile Rank Conversion
 (At approximately 4 Instructional weeks)

%ile	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	%ile
51	188	195	201	205	207	210	213	214	51
52	188	196	201	205	208	211	213	214	52
53	188	196	201	205	208	211	214	214	53
54	189	196	201	205	208	211	214	215	54
55	189	196	201	206	208	211	214	215	55
56	189	196	202	206	209	212	215	215	56
57	189	197	202	206	209	212	215	216	57
58	190	197	202	206	209	212	215	216	58
59	190	197	202	207	210	212	216	216	59
60	190	197	203	207	210	213	216	216	60
61	190	198	203	207	210	213	216	217	61
62	191	198	203	207	210	213	217	217	62
63	191	198	203	208	211	214	217	217	63
64	191	199	204	208	211	214	217	218	64
65	192	199	204	208	211	214	217	218	65
66	192	199	204	208	212	214	218	218	66
67	192	199	204	209	212	215	218	219	67
68	192	200	205	209	212	215	218	219	68
69	193	200	205	209	212	215	219	219	69
70	193	200	205	210	213	216	219	219	70
71	193	200	206	210	213	216	220	220	71
72	194	201	206	210	213	216	220	220	72
73	194	201	206	211	214	217	220	220	73
74	194	201	206	211	214	217	221	221	74
75	195	202	207	211	214	217	221	221	75
76	195	202	207	212	215	218	221	222	76
77	195	202	207	212	215	218	222	222	77
78	196	203	208	212	215	218	222	222	78
79	196	203	208	213	216	219	223	223	79
80	196	203	208	213	216	219	223	223	80
81	197	204	209	213	217	220	223	224	81
82	197	204	209	214	217	220	224	224	82
83	197	204	210	214	217	220	224	224	83
84	198	205	210	215	218	221	225	225	84
85	198	205	210	215	218	221	225	225	85
86	199	206	211	215	219	222	226	226	86
87	199	206	211	216	219	222	227	226	87
88	200	207	212	216	220	223	227	227	88
89	200	207	212	217	220	223	228	228	89
90	201	208	213	218	221	224	228	228	90
91	202	208	213	218	222	225	229	229	91
92	202	209	214	219	222	225	230	230	92
93	203	210	215	220	223	226	231	230	93
94	204	210	216	221	224	227	232	231	94
95	205	211	217	222	225	228	233	233	95
96	206	213	218	223	226	229	235	234	96
97	208	214	219	224	228	231	236	236	97
98	210	216	221	226	230	233	239	238	98
99	214	220	225	231	234	238	244	242	99

Table B.15. Winter CONCEPTS & PROCESSES

Northwest Evaluation Association
Winter Science Concepts & Processes RIT Score to Percentile Rank Conversion
 (At approximately 18 Instructional weeks)

%ile	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	%ile
1	170	176	181	183	185	188	187	189	1
2	172	178	183	185	188	190	189	191	2
3	174	180	185	187	189	192	191	193	3
4	175	181	186	188	190	193	192	194	4
5	176	182	187	189	191	194	194	196	5
6	176	182	188	190	192	195	195	196	6
7	177	183	188	191	193	196	196	197	7
8	178	184	189	191	194	196	196	198	8
9	178	184	190	192	194	197	197	199	9
10	179	185	190	193	195	198	198	199	10
11	180	185	191	193	196	198	198	200	11
12	180	186	191	194	196	199	199	201	12
13	180	186	192	194	197	199	200	201	13
14	181	187	192	195	197	200	200	202	14
15	181	187	192	195	198	200	201	202	15
16	182	188	193	195	198	201	201	203	16
17	182	188	193	196	198	201	202	203	17
18	182	188	194	196	199	201	202	204	18
19	183	189	194	197	199	202	203	204	19
20	183	189	194	197	200	202	203	204	20
21	184	189	195	197	200	203	203	205	21
22	184	190	195	198	200	203	204	205	22
23	184	190	195	198	201	203	204	206	23
24	184	190	196	198	201	204	205	206	24
25	185	191	196	199	201	204	205	206	25
26	185	191	196	199	202	204	205	207	26
27	185	191	196	199	202	205	206	207	27
28	186	192	197	200	202	205	206	207	28
29	186	192	197	200	203	205	207	208	29
30	186	192	197	200	203	206	207	208	30
31	187	192	198	200	203	206	207	208	31
32	187	193	198	201	203	206	208	209	32
33	187	193	198	201	204	206	208	209	33
34	187	193	198	201	204	207	208	209	34
35	188	193	199	202	204	207	209	210	35
36	188	194	199	202	205	207	209	210	36
37	188	194	199	202	205	208	209	210	37
38	188	194	199	202	205	208	210	210	38
39	189	194	200	203	205	208	210	211	39
40	189	195	200	203	206	208	210	211	40
41	189	195	200	203	206	209	210	211	41
42	189	195	200	203	206	209	211	212	42
43	190	195	201	204	206	209	211	212	43
44	190	196	201	204	207	210	211	212	44
45	190	196	201	204	207	210	212	213	45
46	190	196	201	205	207	210	212	213	46
47	191	196	202	205	208	210	212	213	47
48	191	197	202	205	208	211	213	213	48
49	191	197	202	205	208	211	213	214	49
50	192	197	203	206	209	211	214	215	50

Northwest Evaluation Association
Winter Science Concepts & Processes RIT Score to Percentile Rank Conversion
 (At approximately 18 Instructional weeks)

%ile	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	%ile
51	192	197	203	206	209	211	214	215	51
52	192	198	203	206	209	212	214	215	52
53	192	198	203	206	209	212	214	215	53
54	192	198	203	207	209	212	214	215	54
55	193	198	204	207	210	212	215	215	55
56	193	199	204	207	210	213	215	216	56
57	193	199	204	207	210	213	215	216	57
58	193	199	204	208	210	213	216	216	58
59	194	199	205	208	211	214	216	217	59
60	194	200	205	208	211	214	216	217	60
61	194	200	205	208	211	214	217	217	61
62	194	200	205	209	212	214	217	217	62
63	195	200	206	209	212	215	217	218	63
64	195	201	206	209	212	215	218	218	64
65	195	201	206	209	212	215	218	218	65
66	195	201	206	210	213	216	218	219	66
67	196	201	207	210	213	216	219	219	67
68	196	202	207	210	213	216	219	219	68
69	196	202	207	211	214	216	219	220	69
70	196	202	208	211	214	217	220	220	70
71	197	202	208	211	214	217	220	220	71
72	197	203	208	212	214	217	220	221	72
73	197	203	208	212	215	218	221	221	73
74	198	203	209	212	215	218	221	221	74
75	198	204	209	212	215	218	222	222	75
76	198	204	209	213	216	219	222	222	76
77	199	204	210	213	216	219	222	222	77
78	199	205	210	213	217	219	223	223	78
79	199	205	210	214	217	220	223	223	79
80	200	205	211	214	217	220	224	224	80
81	200	206	211	215	218	221	224	224	81
82	200	206	211	215	218	221	224	224	82
83	201	206	212	215	218	221	225	225	83
84	201	207	212	216	219	222	225	225	84
85	202	207	213	216	219	222	226	226	85
86	202	208	213	217	220	223	227	226	86
87	202	208	213	217	220	223	227	227	87
88	203	209	214	218	221	224	228	228	88
89	203	209	215	218	221	224	228	228	89
90	204	210	215	219	222	225	229	229	90
91	205	210	216	219	223	226	230	229	91
92	205	211	216	220	223	226	231	230	92
93	206	212	217	221	224	227	232	231	93
94	207	212	218	222	225	228	233	232	94
95	208	213	219	223	226	229	234	233	95
96	209	214	220	224	227	230	235	235	96
97	210	216	221	225	229	232	237	236	97
98	212	218	223	228	231	234	240	239	98
99	216	222	227	232	235	239	244	243	99

Table B.16. Spring CONCEPTS & PROCESSES

Northwest Evaluation Association
Spring Science Concepts & Processes RIT Score to Percentile Rank Conversion
 (At approximately 28 Instructional weeks)

%ile	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	%ile
1	173	178	182	184	186	188	186	188	1
2	175	180	184	186	188	190	189	190	2
3	176	181	186	188	190	192	191	192	3
4	178	182	187	189	191	193	192	194	4
5	179	183	188	190	192	194	193	195	5
6	179	184	189	191	193	195	195	196	6
7	180	185	189	191	194	196	195	197	7
8	181	186	190	192	195	197	196	198	8
9	181	186	191	193	195	197	197	198	9
10	182	187	191	193	196	198	198	199	10
11	182	187	192	194	197	199	199	200	11
12	183	188	192	195	197	199	199	200	12
13	183	188	193	195	198	200	200	201	13
14	184	189	193	195	198	200	200	201	14
15	184	189	194	196	199	201	201	202	15
16	185	189	194	196	199	201	201	202	16
17	185	190	194	197	199	201	202	203	17
18	185	190	195	197	200	202	202	203	18
19	186	191	195	198	200	202	203	204	19
20	186	191	195	198	201	203	203	204	20
21	186	191	196	198	201	203	204	205	21
22	187	192	196	199	201	203	204	205	22
23	187	192	197	199	202	204	205	205	23
24	187	192	197	199	202	204	205	206	24
25	188	193	197	200	202	205	205	206	25
26	188	193	197	200	203	205	206	207	26
27	188	193	198	200	203	205	206	207	27
28	188	193	198	201	203	206	207	207	28
29	189	194	198	201	204	206	207	208	29
30	189	194	199	201	204	206	207	208	30
31	189	194	199	202	204	207	208	208	31
32	190	195	199	202	205	207	208	209	32
33	190	195	199	202	205	207	208	209	33
34	190	195	200	202	205	207	209	209	34
35	190	195	200	203	205	208	209	210	35
36	191	196	200	203	206	208	209	210	36
37	191	196	201	203	206	208	210	210	37
38	191	196	201	204	206	209	210	211	38
39	191	196	201	204	207	209	210	211	39
40	192	197	201	204	207	209	211	211	40
41	192	197	202	204	207	210	211	212	41
42	192	197	202	205	207	210	211	212	42
43	192	197	202	205	208	210	212	212	43
44	193	198	202	205	208	210	212	212	44
45	193	198	203	205	208	211	212	213	45
46	193	198	203	206	208	211	213	213	46
47	193	198	203	206	209	211	213	213	47
48	194	199	203	206	209	211	213	214	48
49	194	199	204	206	209	212	214	214	49
50	194	199	204	207	210	212	214	214	50

Northwest Evaluation Association
Spring Science Concepts & Processes RIT Score to Percentile Rank Conversion
 (At approximately 28 instructional weeks)

%ile	G 3	G 4	G 5	G 6	G 7	G 8	G 9	G 10	%ile
51	194	199	204	207	210	212	214	215	51
52	195	200	204	207	210	213	215	215	52
53	195	200	205	208	210	213	215	215	53
54	195	200	205	208	211	213	215	215	54
55	195	200	205	208	211	213	216	216	55
56	196	201	205	208	211	214	216	216	56
57	196	201	206	209	211	214	216	216	57
58	196	201	206	209	212	214	217	217	58
59	196	201	206	209	212	215	217	217	59
60	197	202	206	209	212	215	217	217	60
61	197	202	207	210	213	215	218	218	61
62	197	202	207	210	213	215	218	218	62
63	197	202	207	210	213	216	218	218	63
64	198	203	208	211	213	216	219	219	64
65	198	203	208	211	214	216	219	219	65
66	198	203	208	211	214	217	219	219	66
67	198	203	208	211	214	217	220	220	67
68	199	204	209	212	215	217	220	220	68
69	199	204	209	212	215	218	220	220	69
70	199	204	209	212	215	218	221	221	70
71	200	205	210	213	215	218	221	221	71
72	200	205	210	213	216	219	221	221	72
73	200	205	210	213	216	219	222	222	73
74	200	205	210	214	216	219	222	222	74
75	201	206	211	214	217	220	223	222	75
76	201	206	211	214	217	220	223	223	76
77	201	206	211	215	218	220	223	223	77
78	202	207	212	215	218	221	224	224	78
79	202	207	212	215	218	221	224	224	79
80	202	207	212	216	219	221	225	224	80
81	203	208	213	216	219	222	225	225	81
82	203	208	213	216	219	222	226	225	82
83	203	209	214	217	220	223	226	226	83
84	204	209	214	217	220	223	227	226	84
85	204	209	214	218	221	224	227	227	85
86	205	210	215	218	221	224	228	227	86
87	205	210	215	219	222	225	228	228	87
88	206	211	216	219	222	225	229	229	88
89	206	211	216	220	223	226	230	229	89
90	207	212	217	220	223	226	230	230	90
91	207	212	218	221	224	227	231	231	91
92	208	213	218	222	225	228	232	231	92
93	209	214	219	222	226	229	233	232	93
94	209	215	220	223	227	230	234	233	94
95	210	216	221	224	228	231	235	235	95
96	212	217	222	226	229	232	237	236	96
97	213	218	224	227	230	234	239	238	97
98	215	220	226	229	233	236	241	240	98
99	219	224	230	234	237	241	247	245	99

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Appendix C - RIT Point Growth Norms in Reading, Language Usage, Mathematics, General Science, and Science Concepts & Processes by Grade, by Starting Instructional Week, by Starting RIT Score, and by Length of Instructional Interval

The tables below provide sets of growth estimates for each grade-content area combination. Each estimate and its standard deviation is at the intersection of three factors: 1) the instructional week (Start Inst. Wk.) at which an initial MAP test was administered, 2) the RIT score of that test (Start RIT), and 3) the instructional week marking the end of the instructional interval and the administration of the second MAP test (Ending Instructional Week). Due to the wide range of values for each factor each table is necessarily partitioned into more manageable segments. For instructional time, the chosen segment size is four week intervals. Starting RIT scores are in five-RIT segments. Even though the model used to compute these growth estimates accounts for the standard errors of measurement in each test event (see Appendix D), for purposes of presentation in these tables, all growth estimates are assumed to come from test events with the commonly observed standard error measurement in their content area.

These tables may be used to obtain reasonable approximations of predicted growth, or to evaluate observed growth. The *Achievement Status and Growth Calculator* serves these purposes with greater precision, but for quick reference, these tables may be a useful alternative. To use the tables, start from the far left column to:

1. Identify the “Starting Instructional Week” (the week the pre-test was administered) that is closest to one of the tabled values as well as to identify the tabled RIT score that is closest to the observed starting score.
2. Identify the “Ending Instructional Week” when the second or ending test was administered (to evaluate observed growth) or when the ending test *will be* administered (to predict growth).

The values in the cell defined by the intersection of these three factors are the estimated growth and standard deviation, respectively. For example, if we consider a grade 1 student who was tested in the fall in reading in the 4th instructional week obtaining a RIT score of 164 and will be tested again in the spring in the 32nd instructional week of the grade 1, Table C.1 (page 87) tells us that the predicted growth for this student is about 17.0, with a standard deviation of approximately 8.77. Note that if a particular set of factors is not explicitly represented in a table, interpolation may be necessary.

Table C.1. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 1

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd K)	120	1.5	4.72	3.8	5.07	6.5	5.60	9.5	6.27	12.5	7.04	15.3	7.88	17.6	8.77	19.4	9.70	20.3	10.65	20.0	11.62
	125	1.6	4.72	3.8	5.07	6.5	5.60	9.5	6.27	12.5	7.04	15.3	7.88	17.7	8.77	19.4	9.70	20.3	10.65	20.1	11.62
	130	1.6	4.72	3.8	5.07	6.5	5.60	9.5	6.27	12.5	7.04	15.4	7.88	17.8	8.77	19.5	9.70	20.4	10.65	20.2	11.62
	135	1.6	4.72	3.8	5.07	6.6	5.60	9.6	6.27	12.6	7.04	15.4	7.88	17.8	8.77	19.6	9.70	20.5	10.65	20.3	11.62
	140	1.6	4.72	3.8	5.07	6.6	5.60	9.6	6.27	12.6	7.04	15.5	7.88	17.9	8.77	19.6	9.70	20.6	10.65	20.4	11.62
	145	1.6	4.72	3.9	5.07	6.6	5.60	9.6	6.27	12.7	7.04	15.5	7.88	17.9	8.77	19.7	9.70	20.6	10.65	20.4	11.62
	150	1.6	4.72	3.9	5.07	6.6	5.60	9.7	6.27	12.7	7.04	15.6	7.88	18.0	8.77	19.8	9.70	20.7	10.65	20.5	11.62
	155	1.6	4.72	3.9	5.07	6.7	5.60	9.7	6.27	12.8	7.04	15.6	7.88	18.1	8.77	19.8	9.70	20.8	10.65	20.6	11.62
	160	1.6	4.72	3.9	5.07	6.7	5.60	9.7	6.27	12.8	7.04	15.7	7.88	18.1	8.77	19.9	9.70	20.9	10.65	20.7	11.62
	165	1.6	4.72	3.9	5.07	6.7	5.60	9.8	6.27	12.8	7.04	15.7	7.88	18.2	8.77	20.0	9.70	20.9	10.65	20.8	11.62
	170	1.6	4.72	3.9	5.07	6.7	5.60	9.8	6.27	12.9	7.04	15.8	7.88	18.2	8.77	20.1	9.70	21.0	10.65	20.9	11.62
	175	1.6	4.72	4.0	5.07	6.8	5.60	9.8	6.27	12.9	7.04	15.8	7.88	18.3	8.77	20.1	9.70	21.1	10.65	20.9	11.62
	180	1.6	4.72	4.0	5.07	6.8	5.60	9.9	6.27	13.0	7.04	15.9	7.88	18.3	8.77	20.2	9.70	21.2	10.65	21.0	11.62
185	1.7	4.72	4.0	5.07	6.8	5.60	9.9	6.27	13.0	7.04	15.9	7.88	18.4	8.77	20.3	9.70	21.2	10.65	21.1	11.62	
190	1.7	4.72	4.0	5.07	6.8	5.60	9.9	6.27	13.0	7.04	16.0	7.88	18.5	8.77	20.3	9.70	21.3	10.65	21.2	11.62	
36 (Gd K)	125			2.3	4.72	5.0	5.07	8.0	5.60	11.0	6.27	13.8	7.04	16.2	7.88	17.9	8.77	18.8	9.70	18.6	10.65
	130			2.3	4.72	5.0	5.07	8.0	5.60	11.0	6.27	13.8	7.04	16.2	7.88	18.0	8.77	18.8	9.70	18.6	10.65
	135			2.3	4.72	5.0	5.07	8.0	5.60	11.0	6.27	13.9	7.04	16.3	7.88	18.0	8.77	18.9	9.70	18.7	10.65
	140			2.3	4.72	5.0	5.07	8.0	5.60	11.1	6.27	13.9	7.04	16.3	7.88	18.1	8.77	19.0	9.70	18.8	10.65
	145			2.3	4.72	5.0	5.07	8.1	5.60	11.1	6.27	13.9	7.04	16.4	7.88	18.1	8.77	19.0	9.70	18.9	10.65
	150			2.3	4.72	5.1	5.07	8.1	5.60	11.1	6.27	14.0	7.04	16.4	7.88	18.2	8.77	19.1	9.70	18.9	10.65
	155			2.3	4.72	5.1	5.07	8.1	5.60	11.2	6.27	14.0	7.04	16.5	7.88	18.3	8.77	19.2	9.70	19.0	10.65
	160			2.3	4.72	5.1	5.07	8.1	5.60	11.2	6.27	14.1	7.04	16.5	7.88	18.3	8.77	19.2	9.70	19.1	10.65
	165			2.3	4.72	5.1	5.07	8.2	5.60	11.2	6.27	14.1	7.04	16.6	7.88	18.4	8.77	19.3	9.70	19.2	10.65
	170			2.3	4.72	5.1	5.07	8.2	5.60	11.3	6.27	14.1	7.04	16.6	7.88	18.4	8.77	19.4	9.70	19.2	10.65
	175			2.3	4.72	5.1	5.07	8.2	5.60	11.3	6.27	14.2	7.04	16.7	7.88	18.5	8.77	19.4	9.70	19.3	10.65
	180			2.3	4.72	5.2	5.07	8.2	5.60	11.3	6.27	14.2	7.04	16.7	7.88	18.5	8.77	19.5	9.70	19.4	10.65
	185			2.4	4.72	5.2	5.07	8.3	5.60	11.4	6.27	14.3	7.04	16.8	7.88	18.6	8.77	19.6	9.70	19.5	10.65
190			2.4	4.72	5.2	5.07	8.3	5.60	11.4	6.27	14.3	7.04	16.8	7.88	18.7	8.77	19.6	9.70	19.5	10.65	
195			2.4	4.72	5.2	5.07	8.3	5.60	11.4	6.27	14.4	7.04	16.9	7.88	18.7	8.77	19.7	9.70	19.6	10.65	
4	125					2.7	4.72	5.7	5.07	8.7	5.60	11.5	6.27	13.9	7.04	15.7	7.88	16.5	8.77	16.3	9.70
	130					2.7	4.72	5.7	5.07	8.7	5.60	11.6	6.27	14.0	7.04	15.7	7.88	16.6	8.77	16.4	9.70

Table C.1. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 1

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	135			2.7	4.72	5.7	5.07	8.8	5.60	11.6	6.27	14.0	7.04	15.8	7.88	16.6	8.77	16.5	9.70		
	140			2.8	4.72	5.8	5.07	8.8	5.60	11.6	6.27	14.0	7.04	15.8	7.88	16.7	8.77	16.5	9.70		
	145			2.8	4.72	5.8	5.07	8.8	5.60	11.7	6.27	14.1	7.04	15.9	7.88	16.8	8.77	16.6	9.70		
	150			2.8	4.72	5.8	5.07	8.8	5.60	11.7	6.27	14.1	7.04	15.9	7.88	16.8	8.77	16.7	9.70		
	155			2.8	4.72	5.8	5.07	8.9	5.60	11.7	6.27	14.2	7.04	16.0	7.88	16.9	8.77	16.7	9.70		
	160			2.8	4.72	5.8	5.07	8.9	5.60	11.8	6.27	14.2	7.04	16.0	7.88	16.9	8.77	16.8	9.70		
	165			2.8	4.72	5.8	5.07	8.9	5.60	11.8	6.27	14.2	7.04	16.1	7.88	17.0	8.77	16.9	9.70		
	170			2.8	4.72	5.9	5.07	8.9	5.60	11.8	6.27	14.3	7.04	16.1	7.88	17.1	8.77	16.9	9.70		
	175			2.8	4.72	5.9	5.07	9.0	5.60	11.9	6.27	14.3	7.04	16.2	7.88	17.1	8.77	17.0	9.70		
	180			2.8	4.72	5.9	5.07	9.0	5.60	11.9	6.27	14.4	7.04	16.2	7.88	17.2	8.77	17.1	9.70		
	185			2.8	4.72	5.9	5.07	9.0	5.60	11.9	6.27	14.4	7.04	16.3	7.88	17.2	8.77	17.1	9.70		
	190			2.8	4.72	5.9	5.07	9.0	5.60	12.0	6.27	14.5	7.04	16.3	7.88	17.3	8.77	17.2	9.70		
	195			2.8	4.72	5.9	5.07	9.1	5.60	12.0	6.27	14.5	7.04	16.4	7.88	17.4	8.77	17.3	9.70		
8	125					3.0	4.72	6.0	5.07	8.8	5.60	11.2	6.27	12.9	7.04	13.8	7.88	13.6	8.77		
	130					3.0	4.72	6.0	5.07	8.8	5.60	11.2	6.27	13.0	7.04	13.9	7.88	13.7	8.77		
	135					3.0	4.72	6.0	5.07	8.8	5.60	11.3	6.27	13.0	7.04	13.9	7.88	13.7	8.77		
	140					3.0	4.72	6.0	5.07	8.9	5.60	11.3	6.27	13.1	7.04	14.0	7.88	13.8	8.77		
	145					3.0	4.72	6.1	5.07	8.9	5.60	11.3	6.27	13.1	7.04	14.0	7.88	13.8	8.77		
	150					3.0	4.72	6.1	5.07	8.9	5.60	11.4	6.27	13.1	7.04	14.1	7.88	13.9	8.77		
	155					3.0	4.72	6.1	5.07	8.9	5.60	11.4	6.27	13.2	7.04	14.1	7.88	13.9	8.77		
	160					3.0	4.72	6.1	5.07	9.0	5.60	11.4	6.27	13.2	7.04	14.2	7.88	14.0	8.77		
	165					3.0	4.72	6.1	5.07	9.0	5.60	11.5	6.27	13.3	7.04	14.2	7.88	14.1	8.77		
	170					3.1	4.72	6.1	5.07	9.0	5.60	11.5	6.27	13.3	7.04	14.3	7.88	14.1	8.77		
	175					3.1	4.72	6.2	5.07	9.0	5.60	11.5	6.27	13.3	7.04	14.3	7.88	14.2	8.77		
	180					3.1	4.72	6.2	5.07	9.1	5.60	11.6	6.27	13.4	7.04	14.4	7.88	14.2	8.77		
	185					3.1	4.72	6.2	5.07	9.1	5.60	11.6	6.27	13.4	7.04	14.4	7.88	14.3	8.77		
	190					3.1	4.72	6.2	5.07	9.1	5.60	11.6	6.27	13.5	7.04	14.5	7.88	14.4	8.77		
	195					3.1	4.72	6.2	5.07	9.1	5.60	11.7	6.27	13.5	7.04	14.5	7.88	14.4	8.77		
	200					3.1	4.72	6.2	5.07	9.2	5.60	11.7	6.27	13.6	7.04	14.6	7.88	14.5	8.77		
12	130					3.0	4.72			5.8	5.07	8.2	5.60	10.0	6.27	10.9	7.04	10.7	7.88		
	135					3.0	4.72			5.9	5.07	8.3	5.60	10.0	6.27	10.9	7.04	10.7	7.88		
	140					3.0	4.72			5.9	5.07	8.3	5.60	10.1	6.27	11.0	7.04	10.8	7.88		
	145					3.0	4.72			5.9	5.07	8.3	5.60	10.1	6.27	11.0	7.04	10.8	7.88		
	150					3.1	4.72			5.9	5.07	8.3	5.60	10.1	6.27	11.0	7.04	10.9	7.88		

Table C.1. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 1

Start Inst. Wk	Start RIT	Ending Instructional Weeks																				
		Prior Grd		Focal Grade																		
		36		4	8	12	16	20	24	28	32	36										
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	155						3.1	4.72	5.9	5.07	8.4	5.60	10.2	6.27	11.1	7.04	10.9	7.88				
	160						3.1	4.72	5.9	5.07	8.4	5.60	10.2	6.27	11.1	7.04	11.0	7.88				
	165						3.1	4.72	6.0	5.07	8.4	5.60	10.2	6.27	11.2	7.04	11.0	7.88				
	170						3.1	4.72	6.0	5.07	8.4	5.60	10.3	6.27	11.2	7.04	11.1	7.88				
	175						3.1	4.72	6.0	5.07	8.5	5.60	10.3	6.27	11.2	7.04	11.1	7.88				
	180						3.1	4.72	6.0	5.07	8.5	5.60	10.3	6.27	11.3	7.04	11.2	7.88				
	185						3.1	4.72	6.0	5.07	8.5	5.60	10.4	6.27	11.3	7.04	11.2	7.88				
	190						3.1	4.72	6.0	5.07	8.5	5.60	10.4	6.27	11.4	7.04	11.3	7.88				
	195						3.1	4.72	6.1	5.07	8.6	5.60	10.4	6.27	11.4	7.04	11.3	7.88				
	200						3.1	4.72	6.1	5.07	8.6	5.60	10.5	6.27	11.5	7.04	11.4	7.88				
16	130								2.8	4.72	5.2	5.07	7.0	5.60	7.9	6.27	7.7	7.04				
	135								2.8	4.72	5.2	5.07	7.0	5.60	7.9	6.27	7.7	7.04				
	140								2.8	4.72	5.3	5.07	7.0	5.60	7.9	6.27	7.7	7.04				
	145								2.8	4.72	5.3	5.07	7.0	5.60	8.0	6.27	7.8	7.04				
	150								2.9	4.72	5.3	5.07	7.1	5.60	8.0	6.27	7.8	7.04				
	155								2.9	4.72	5.3	5.07	7.1	5.60	8.0	6.27	7.9	7.04				
	160								2.9	4.72	5.3	5.07	7.1	5.60	8.1	6.27	7.9	7.04				
	165								2.9	4.72	5.3	5.07	7.1	5.60	8.1	6.27	7.9	7.04				
	170								2.9	4.72	5.4	5.07	7.2	5.60	8.1	6.27	8.0	7.04				
	175								2.9	4.72	5.4	5.07	7.2	5.60	8.2	6.27	8.0	7.04				
	180								2.9	4.72	5.4	5.07	7.2	5.60	8.2	6.27	8.1	7.04				
	185								2.9	4.72	5.4	5.07	7.3	5.60	8.2	6.27	8.1	7.04				
	190								2.9	4.72	5.4	5.07	7.3	5.60	8.3	6.27	8.2	7.04				
	195								2.9	4.72	5.4	5.07	7.3	5.60	8.3	6.27	8.2	7.04				
	200								2.9	4.72	5.5	5.07	7.3	5.60	8.3	6.27	8.2	7.04				
	205								2.9	4.72	5.5	5.07	7.4	5.60	8.4	6.27	8.3	7.04				
20	135											2.4	4.72	4.2	5.07	5.1	5.60	4.9	6.27			
	140											2.4	4.72	4.2	5.07	5.1	5.60	4.9	6.27			
	145											2.4	4.72	4.2	5.07	5.1	5.60	4.9	6.27			
	150											2.4	4.72	4.2	5.07	5.1	5.60	5.0	6.27			
	155											2.4	4.72	4.2	5.07	5.2	5.60	5.0	6.27			
	160											2.5	4.72	4.3	5.07	5.2	5.60	5.0	6.27			
	165											2.5	4.72	4.3	5.07	5.2	5.60	5.1	6.27			
	170											2.5	4.72	4.3	5.07	5.2	5.60	5.1	6.27			

Table C.1. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 1

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4		8		12		16		20		24		28		32	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
175												2.5	4.72	4.3	5.07	5.3	5.60	5.1	6.27
180												2.5	4.72	4.3	5.07	5.3	5.60	5.2	6.27
185												2.5	4.72	4.3	5.07	5.3	5.60	5.2	6.27
190												2.5	4.72	4.4	5.07	5.3	5.60	5.2	6.27
195												2.5	4.72	4.4	5.07	5.4	5.60	5.3	6.27
200												2.5	4.72	4.4	5.07	5.4	5.60	5.3	6.27
205												2.5	4.72	4.4	5.07	5.4	5.60	5.3	6.27
210												2.5	4.72	4.4	5.07	5.4	5.60	5.4	6.27

Table C.2. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 2

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 1)	130	1.5	4.70	3.7	5.00	6.5	5.47	9.7	6.06	13.1	6.75	16.5	7.50	19.6	8.31	22.4	9.15	24.6	10.01	26.0	10.90
	135	1.4	4.70	3.5	5.00	6.2	5.47	9.3	6.06	12.6	6.75	15.9	7.50	18.9	8.31	21.6	9.15	23.7	10.01	24.9	10.90
	140	1.3	4.70	3.3	5.00	5.9	5.47	8.9	6.06	12.1	6.75	15.2	7.50	18.2	8.31	20.8	9.15	22.7	10.01	23.9	10.90
	145	1.2	4.70	3.1	5.00	5.6	5.47	8.5	6.06	11.5	6.75	14.6	7.50	17.5	8.31	19.9	9.15	21.8	10.01	22.8	10.90
	150	1.1	4.70	2.9	5.00	5.3	5.47	8.1	6.06	11.0	6.75	14.0	7.50	16.7	8.31	19.1	9.15	20.8	10.01	21.8	10.90
	155	1.0	4.70	2.7	5.00	5.0	5.47	7.6	6.06	10.5	6.75	13.4	7.50	16.0	8.31	18.3	9.15	19.9	10.01	20.8	10.90
	160	0.8	4.70	2.5	5.00	4.7	5.47	7.2	6.06	10.0	6.75	12.7	7.50	15.3	8.31	17.4	9.15	19.0	10.01	19.7	10.90
	165	0.7	4.70	2.3	5.00	4.3	5.47	6.8	6.06	9.5	6.75	12.1	7.50	14.6	8.31	16.6	9.15	18.0	10.01	18.7	10.90
	170	0.6	4.70	2.0	5.00	4.0	5.47	6.4	6.06	9.0	6.75	11.5	7.50	13.8	8.31	15.8	9.15	17.1	10.01	17.7	10.90
	175	0.5	4.70	1.8	5.00	3.7	5.47	6.0	6.06	8.4	6.75	10.9	7.50	13.1	8.31	14.9	9.15	16.2	10.01	16.6	10.90
	180	0.4	4.70	1.6	5.00	3.4	5.47	5.6	6.06	7.9	6.75	10.3	7.50	12.4	8.31	14.1	9.15	15.2	10.01	15.6	10.90
	185	0.3	4.70	1.4	5.00	3.1	5.47	5.2	6.06	7.4	6.75	9.6	7.50	11.7	8.31	13.3	9.15	14.3	10.01	14.5	10.90
	190	0.2	4.70	1.2	5.00	2.8	5.47	4.7	6.06	6.9	6.75	9.0	7.50	10.9	8.31	12.4	9.15	13.4	10.01	13.5	10.90
	195	0.1	4.70	1.0	5.00	2.5	5.47	4.3	6.06	6.4	6.75	8.4	7.50	10.2	8.31	11.6	9.15	12.4	10.01	12.5	10.90
	200	0.0	4.70	0.8	5.00	2.2	5.47	3.9	6.06	5.8	6.75	7.8	7.50	9.5	8.31	10.8	9.15	11.5	10.01	11.4	10.90
	205	-0.1	4.70	0.6	5.00	1.9	5.47	3.5	6.06	5.3	6.75	7.1	7.50	8.7	8.31	10.0	9.15	10.6	10.01	10.4	10.90
	210	-0.2	4.70	0.4	5.00	1.5	5.47	3.1	6.06	4.8	6.75	6.5	7.50	8.0	8.31	9.1	9.15	9.6	10.01	9.3	10.90
215	-0.3	4.70	0.2	5.00	1.2	5.47	2.7	6.06	4.3	6.75	5.9	7.50	7.3	8.31	8.3	9.15	8.7	10.01	8.3	10.90	
220	-0.4	4.70	0.0	5.00	0.9	5.47	2.2	6.06	3.8	6.75	5.3	7.50	6.6	8.31	7.5	9.15	7.8	10.01	7.3	10.90	
36 (Gd 1)	130			2.2	4.70	5.1	5.00	8.3	5.47	11.6	6.06	15.0	6.75	18.2	7.50	21.0	8.31	23.1	9.15	24.5	10.01
	135			2.1	4.70	4.9	5.00	7.9	5.47	11.2	6.06	14.5	6.75	17.6	7.50	20.2	8.31	22.3	9.15	23.6	10.01
	140			2.0	4.70	4.6	5.00	7.6	5.47	10.8	6.06	14.0	6.75	16.9	7.50	19.5	8.31	21.5	9.15	22.6	10.01
	145			1.9	4.70	4.4	5.00	7.3	5.47	10.4	6.06	13.5	6.75	16.3	7.50	18.8	8.31	20.6	9.15	21.7	10.01
	150			1.8	4.70	4.2	5.00	7.0	5.47	10.0	6.06	12.9	6.75	15.7	7.50	18.0	8.31	19.8	9.15	20.8	10.01
	155			1.7	4.70	4.0	5.00	6.7	5.47	9.6	6.06	12.4	6.75	15.1	7.50	17.3	8.31	19.0	9.15	19.8	10.01
	160			1.6	4.70	3.8	5.00	6.4	5.47	9.1	6.06	11.9	6.75	14.4	7.50	16.6	8.31	18.1	9.15	18.9	10.01
	165			1.5	4.70	3.6	5.00	6.1	5.47	8.7	6.06	11.4	6.75	13.8	7.50	15.9	8.31	17.3	9.15	18.0	10.01
	170			1.4	4.70	3.4	5.00	5.8	5.47	8.3	6.06	10.9	6.75	13.2	7.50	15.1	8.31	16.5	9.15	17.0	10.01
	175			1.3	4.70	3.2	5.00	5.5	5.47	7.9	6.06	10.3	6.75	12.6	7.50	14.4	8.31	15.6	9.15	16.1	10.01
	180			1.2	4.70	3.0	5.00	5.1	5.47	7.5	6.06	9.8	6.75	12.0	7.50	13.7	8.31	14.8	9.15	15.2	10.01
	185			1.1	4.70	2.8	5.00	4.8	5.47	7.1	6.06	9.3	6.75	11.3	7.50	13.0	8.31	14.0	9.15	14.2	10.01
	190			1.0	4.70	2.6	5.00	4.5	5.47	6.7	6.06	8.8	6.75	10.7	7.50	12.2	8.31	13.2	9.15	13.3	10.01

Table C.2. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 2

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	195			0.9	4.70	2.4	5.00	4.2	5.47	6.2	6.06	8.3	6.75	10.1	7.50	11.5	8.31	12.3	9.15	12.3	10.01
	200			0.8	4.70	2.2	5.00	3.9	5.47	5.8	6.06	7.7	6.75	9.5	7.50	10.8	8.31	11.5	9.15	11.4	10.01
	205			0.7	4.70	1.9	5.00	3.6	5.47	5.4	6.06	7.2	6.75	8.8	7.50	10.0	8.31	10.7	9.15	10.5	10.01
	210			0.6	4.70	1.7	5.00	3.3	5.47	5.0	6.06	6.7	6.75	8.2	7.50	9.3	8.31	9.8	9.15	9.5	10.01
	215			0.5	4.70	1.5	5.00	3.0	5.47	4.6	6.06	6.2	6.75	7.6	7.50	8.6	8.31	9.0	9.15	8.6	10.01
	220			0.4	4.70	1.3	5.00	2.7	5.47	4.2	6.06	5.7	6.75	7.0	7.50	7.9	8.31	8.2	9.15	7.7	10.01
4	135					2.7	4.70	5.8	5.00	9.1	5.47	12.4	6.06	15.4	6.75	18.1	7.50	20.2	8.31	21.4	9.15
	140					2.6	4.70	5.6	5.00	8.8	5.47	11.9	6.06	14.9	6.75	17.5	7.50	19.4	8.31	20.6	9.15
	145					2.5	4.70	5.4	5.00	8.5	5.47	11.5	6.06	14.4	6.75	16.8	7.50	18.7	8.31	19.8	9.15
	150					2.4	4.70	5.2	5.00	8.2	5.47	11.1	6.06	13.9	6.75	16.2	7.50	18.0	8.31	18.9	9.15
	155					2.3	4.70	5.0	5.00	7.8	5.47	10.7	6.06	13.3	6.75	15.6	7.50	17.2	8.31	18.1	9.15
	160					2.2	4.70	4.8	5.00	7.5	5.47	10.3	6.06	12.8	6.75	15.0	7.50	16.5	8.31	17.3	9.15
	165					2.1	4.70	4.6	5.00	7.2	5.47	9.9	6.06	12.3	6.75	14.4	7.50	15.8	8.31	16.4	9.15
	170					2.0	4.70	4.4	5.00	6.9	5.47	9.5	6.06	11.8	6.75	13.7	7.50	15.1	8.31	15.6	9.15
	175					1.9	4.70	4.2	5.00	6.6	5.47	9.0	6.06	11.3	6.75	13.1	7.50	14.3	8.31	14.8	9.15
	180					1.8	4.70	3.9	5.00	6.3	5.47	8.6	6.06	10.8	6.75	12.5	7.50	13.6	8.31	14.0	9.15
	185					1.7	4.70	3.7	5.00	6.0	5.47	8.2	6.06	10.2	6.75	11.9	7.50	12.9	8.31	13.1	9.15
	190					1.6	4.70	3.5	5.00	5.7	5.47	7.8	6.06	9.7	6.75	11.2	7.50	12.2	8.31	12.3	9.15
	195					1.5	4.70	3.3	5.00	5.4	5.47	7.4	6.06	9.2	6.75	10.6	7.50	11.4	8.31	11.5	9.15
	200					1.4	4.70	3.1	5.00	5.0	5.47	7.0	6.06	8.7	6.75	10.0	7.50	10.7	8.31	10.6	9.15
205					1.3	4.70	2.9	5.00	4.7	5.47	6.5	6.06	8.2	6.75	9.4	7.50	10.0	8.31	9.8	9.15	
210					1.2	4.70	2.7	5.00	4.4	5.47	6.1	6.06	7.6	6.75	8.7	7.50	9.3	8.31	9.0	9.15	
215					1.1	4.70	2.5	5.00	4.1	5.47	5.7	6.06	7.1	6.75	8.1	7.50	8.5	8.31	8.1	9.15	
220					1.0	4.70	2.3	5.00	3.8	5.47	5.3	6.06	6.6	6.75	7.5	7.50	7.8	8.31	7.3	9.15	
8	135							3.1	4.70	6.4	5.00	9.6	5.47	12.7	6.06	15.4	6.75	17.4	7.50	18.7	8.31
	140							3.0	4.70	6.2	5.00	9.3	5.47	12.3	6.06	14.9	6.75	16.8	7.50	18.0	8.31
	145							2.9	4.70	6.0	5.00	9.0	5.47	11.9	6.06	14.3	6.75	16.2	7.50	17.3	8.31
	150							2.8	4.70	5.8	5.00	8.7	5.47	11.5	6.06	13.8	6.75	15.6	7.50	16.5	8.31
	155							2.7	4.70	5.5	5.00	8.4	5.47	11.1	6.06	13.3	6.75	15.0	7.50	15.8	8.31
	160							2.6	4.70	5.3	5.00	8.1	5.47	10.6	6.06	12.8	6.75	14.3	7.50	15.1	8.31
	165							2.5	4.70	5.1	5.00	7.8	5.47	10.2	6.06	12.3	6.75	13.7	7.50	14.4	8.31
	170							2.4	4.70	4.9	5.00	7.5	5.47	9.8	6.06	11.7	6.75	13.1	7.50	13.6	8.31
	175							2.3	4.70	4.7	5.00	7.2	5.47	9.4	6.06	11.2	6.75	12.5	7.50	12.9	8.31
	180							2.2	4.70	4.5	5.00	6.8	5.47	9.0	6.06	10.7	6.75	11.8	7.50	12.2	8.31

Table C.2. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 2

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4	8	12	16	20	24	28	32	36							
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	185					2.1	4.70	4.3	5.00	6.5	5.47	8.6	6.06	10.2	6.75	11.2	7.50	11.4	8.31
	190					2.0	4.70	4.1	5.00	6.2	5.47	8.1	6.06	9.7	6.75	10.6	7.50	10.7	8.31
	195					1.9	4.70	3.9	5.00	5.9	5.47	7.7	6.06	9.1	6.75	10.0	7.50	10.0	8.31
	200					1.7	4.70	3.7	5.00	5.6	5.47	7.3	6.06	8.6	6.75	9.3	7.50	9.3	8.31
	205					1.6	4.70	3.5	5.00	5.3	5.47	6.9	6.06	8.1	6.75	8.7	7.50	8.5	8.31
	210					1.5	4.70	3.3	5.00	5.0	5.47	6.5	6.06	7.6	6.75	8.1	7.50	7.8	8.31
	215					1.4	4.70	3.1	5.00	4.7	5.47	6.1	6.06	7.1	6.75	7.5	7.50	7.1	8.31
	220					1.3	4.70	2.8	5.00	4.4	5.47	5.7	6.06	6.6	6.75	6.9	7.50	6.4	8.31
12	140							3.2	4.70	6.3	5.00	9.3	5.47	11.9	6.06	13.8	6.75	15.0	7.50
	145							3.1	4.70	6.1	5.00	9.0	5.47	11.5	6.06	13.3	6.75	14.4	7.50
	150							3.0	4.70	5.9	5.00	8.7	5.47	11.0	6.06	12.8	6.75	13.8	7.50
	155							2.9	4.70	5.7	5.00	8.4	5.47	10.6	6.06	12.3	6.75	13.1	7.50
	160							2.8	4.70	5.5	5.00	8.1	5.47	10.2	6.06	11.8	6.75	12.5	7.50
	165							2.7	4.70	5.3	5.00	7.8	5.47	9.8	6.06	11.2	6.75	11.9	7.50
	170							2.6	4.70	5.1	5.00	7.4	5.47	9.4	6.06	10.7	6.75	11.3	7.50
	175							2.5	4.70	4.9	5.00	7.1	5.47	9.0	6.06	10.2	6.75	10.6	7.50
	180							2.4	4.70	4.7	5.00	6.8	5.47	8.5	6.06	9.7	6.75	10.0	7.50
	185							2.2	4.70	4.5	5.00	6.5	5.47	8.1	6.06	9.2	6.75	9.4	7.50
	190							2.1	4.70	4.3	5.00	6.2	5.47	7.7	6.06	8.6	6.75	8.8	7.50
	195							2.0	4.70	4.1	5.00	5.9	5.47	7.3	6.06	8.1	6.75	8.1	7.50
	200							1.9	4.70	3.9	5.00	5.6	5.47	6.9	6.06	7.6	6.75	7.5	7.50
	205							1.8	4.70	3.6	5.00	5.3	5.47	6.5	6.06	7.1	6.75	6.9	7.50
	210							1.7	4.70	3.4	5.00	4.9	5.47	6.1	6.06	6.6	6.75	6.3	7.50
	215							1.6	4.70	3.2	5.00	4.6	5.47	5.6	6.06	6.0	6.75	5.7	7.50
	220							1.5	4.70	3.0	5.00	4.3	5.47	5.2	6.06	5.5	6.75	5.0	7.50
16	140									3.2	4.70	6.1	5.00	8.7	5.47	10.7	6.06	11.8	6.75
	145									3.1	4.70	5.9	5.00	8.4	5.47	10.2	6.06	11.3	6.75
	150									3.0	4.70	5.7	5.00	8.1	5.47	9.8	6.06	10.8	6.75
	155									2.9	4.70	5.5	5.00	7.8	5.47	9.4	6.06	10.3	6.75
	160									2.8	4.70	5.3	5.00	7.4	5.47	9.0	6.06	9.7	6.75
	165									2.7	4.70	5.1	5.00	7.1	5.47	8.6	6.06	9.2	6.75
	170									2.5	4.70	4.9	5.00	6.8	5.47	8.2	6.06	8.7	6.75
	175									2.4	4.70	4.7	5.00	6.5	5.47	7.7	6.06	8.2	6.75
	180									2.3	4.70	4.5	5.00	6.2	5.47	7.3	6.06	7.7	6.75

Table C.2. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 2

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	185									2.2	4.70	4.3	5.00	5.9	5.47	6.9	6.06	7.1	6.75		
	190									2.1	4.70	4.1	5.00	5.6	5.47	6.5	6.06	6.6	6.75		
	195									2.0	4.70	3.8	5.00	5.3	5.47	6.1	6.06	6.1	6.75		
	200									1.9	4.70	3.6	5.00	5.0	5.47	5.7	6.06	5.6	6.75		
	205									1.8	4.70	3.4	5.00	4.6	5.47	5.3	6.06	5.1	6.75		
	210									1.7	4.70	3.2	5.00	4.3	5.47	4.8	6.06	4.6	6.75		
	215									1.6	4.70	3.0	5.00	4.0	5.47	4.4	6.06	4.0	6.75		
	220									1.5	4.70	2.8	5.00	3.7	5.47	4.0	6.06	3.5	6.75		
20	145													2.9	4.70	5.3	5.00	7.2	5.47	8.2	6.06
	150													2.8	4.70	5.1	5.00	6.9	5.47	7.8	6.06
	155													2.7	4.70	4.9	5.00	6.6	5.47	7.4	6.06
	160													2.6	4.70	4.7	5.00	6.2	5.47	7.0	6.06
	165													2.4	4.70	4.5	5.00	5.9	5.47	6.6	6.06
	170													2.3	4.70	4.3	5.00	5.6	5.47	6.2	6.06
	175													2.2	4.70	4.1	5.00	5.3	5.47	5.7	6.06
	180													2.1	4.70	3.9	5.00	5.0	5.47	5.3	6.06
	185													2.0	4.70	3.7	5.00	4.7	5.47	4.9	6.06
	190													1.9	4.70	3.4	5.00	4.4	5.47	4.5	6.06
	195													1.8	4.70	3.2	5.00	4.1	5.47	4.1	6.06
	200													1.7	4.70	3.0	5.00	3.7	5.47	3.7	6.06
	205													1.6	4.70	2.8	5.00	3.4	5.47	3.3	6.06
	210													1.5	4.70	2.6	5.00	3.1	5.47	2.8	6.06
	215													1.4	4.70	2.4	5.00	2.8	5.47	2.4	6.06
	220													1.3	4.70	2.2	5.00	2.5	5.47	2.0	6.06

Table C.3. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 2)	145	1.4	4.66	3.2	4.83	5.3	5.11	7.6	5.48	9.9	5.92	12.2	6.42	14.3	6.96	16.1	7.54	17.6	8.15	18.5	8.78
	150	1.3	4.66	3.1	4.83	5.1	5.11	7.3	5.48	9.5	5.92	11.7	6.42	13.8	6.96	15.5	7.54	16.9	8.15	17.7	8.78
	155	1.3	4.66	2.9	4.83	4.9	5.11	7.0	5.48	9.2	5.92	11.3	6.42	13.3	6.96	14.9	7.54	16.2	8.15	17.0	8.78
	160	1.2	4.66	2.8	4.83	4.6	5.11	6.7	5.48	8.8	5.92	10.8	6.42	12.7	6.96	14.3	7.54	15.5	8.15	16.2	8.78
	165	1.1	4.66	2.6	4.83	4.4	5.11	6.4	5.48	8.4	5.92	10.4	6.42	12.2	6.96	13.7	7.54	14.9	8.15	15.5	8.78
	170	1.0	4.66	2.5	4.83	4.2	5.11	6.1	5.48	8.0	5.92	9.9	6.42	11.7	6.96	13.1	7.54	14.2	8.15	14.8	8.78
	175	1.0	4.66	2.3	4.83	4.0	5.11	5.8	5.48	7.7	5.92	9.5	6.42	11.2	6.96	12.5	7.54	13.5	8.15	14.0	8.78
	180	0.9	4.66	2.2	4.83	3.7	5.11	5.5	5.48	7.3	5.92	9.1	6.42	10.6	6.96	11.9	7.54	12.9	8.15	13.3	8.78
	185	0.8	4.66	2.0	4.83	3.5	5.11	5.2	5.48	6.9	5.92	8.6	6.42	10.1	6.96	11.3	7.54	12.2	8.15	12.5	8.78
	190	0.7	4.66	1.9	4.83	3.3	5.11	4.9	5.48	6.6	5.92	8.2	6.42	9.6	6.96	10.7	7.54	11.5	8.15	11.8	8.78
	195	0.7	4.66	1.7	4.83	3.1	5.11	4.6	5.48	6.2	5.92	7.7	6.42	9.1	6.96	10.1	7.54	10.8	8.15	11.0	8.78
	200	0.6	4.66	1.6	4.83	2.9	5.11	4.3	5.48	5.8	5.92	7.3	6.42	8.5	6.96	9.5	7.54	10.2	8.15	10.3	8.78
	205	0.5	4.66	1.4	4.83	2.6	5.11	4.0	5.48	5.4	5.92	6.8	6.42	8.0	6.96	8.9	7.54	9.5	8.15	9.5	8.78
	210	0.4	4.66	1.3	4.83	2.4	5.11	3.7	5.48	5.1	5.92	6.4	6.42	7.5	6.96	8.4	7.54	8.8	8.15	8.8	8.78
	215	0.4	4.66	1.1	4.83	2.2	5.11	3.4	5.48	4.7	5.92	5.9	6.42	7.0	6.96	7.8	7.54	8.1	8.15	8.0	8.78
220	0.3	4.66	1.0	4.83	2.0	5.11	3.1	5.48	4.3	5.92	5.5	6.42	6.4	6.96	7.2	7.54	7.5	8.15	7.3	8.78	
225	0.2	4.66	0.8	4.83	1.7	5.11	2.8	5.48	3.9	5.92	5.0	6.42	5.9	6.96	6.6	7.54	6.8	8.15	6.5	8.78	
36 (Gd 2)	145			1.8	4.66	3.9	4.83	6.2	5.11	8.5	5.48	10.8	5.92	12.9	6.42	14.7	6.96	16.2	7.54	17.1	8.15
	150			1.7	4.66	3.8	4.83	6.0	5.11	8.2	5.48	10.4	5.92	12.4	6.42	14.2	6.96	15.6	7.54	16.4	8.15
	155			1.7	4.66	3.6	4.83	5.7	5.11	7.9	5.48	10.0	5.92	12.0	6.42	13.7	6.96	15.0	7.54	15.7	8.15
	160			1.6	4.66	3.5	4.83	5.5	5.11	7.6	5.48	9.7	5.92	11.5	6.42	13.1	6.96	14.4	7.54	15.1	8.15
	165			1.5	4.66	3.3	4.83	5.3	5.11	7.3	5.48	9.3	5.92	11.1	6.42	12.6	6.96	13.8	7.54	14.4	8.15
	170			1.4	4.66	3.2	4.83	5.1	5.11	7.0	5.48	8.9	5.92	10.6	6.42	12.1	6.96	13.2	7.54	13.7	8.15
	175			1.4	4.66	3.0	4.83	4.8	5.11	6.7	5.48	8.5	5.92	10.2	6.42	11.6	6.96	12.6	7.54	13.0	8.15
	180			1.3	4.66	2.9	4.83	4.6	5.11	6.4	5.48	8.2	5.92	9.7	6.42	11.1	6.96	12.0	7.54	12.4	8.15
	185			1.2	4.66	2.7	4.83	4.4	5.11	6.1	5.48	7.8	5.92	9.3	6.42	10.5	6.96	11.4	7.54	11.7	8.15
	190			1.1	4.66	2.6	4.83	4.2	5.11	5.8	5.48	7.4	5.92	8.9	6.42	10.0	6.96	10.8	7.54	11.0	8.15
	195			1.1	4.66	2.4	4.83	3.9	5.11	5.5	5.48	7.0	5.92	8.4	6.42	9.5	6.96	10.2	7.54	10.4	8.15
	200			1.0	4.66	2.3	4.83	3.7	5.11	5.2	5.48	6.7	5.92	8.0	6.42	9.0	6.96	9.6	7.54	9.7	8.15
	205			0.9	4.66	2.1	4.83	3.5	5.11	4.9	5.48	6.3	5.92	7.5	6.42	8.4	6.96	9.0	7.54	9.0	8.15
	210			0.8	4.66	2.0	4.83	3.3	5.11	4.6	5.48	5.9	5.92	7.1	6.42	7.9	6.96	8.4	7.54	8.3	8.15
	215			0.8	4.66	1.8	4.83	3.0	5.11	4.3	5.48	5.5	5.92	6.6	6.42	7.4	6.96	7.8	7.54	7.7	8.15

Table C.3. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	220			0.7	4.66	1.7	4.83	2.8	5.11	4.0	5.48	5.2	5.92	6.2	6.42	6.9	6.96	7.2	7.54	7.0	8.15
	225			0.6	4.66	1.5	4.83	2.6	5.11	3.7	5.48	4.8	5.92	5.7	6.42	6.3	6.96	6.6	7.54	6.3	8.15
4	150					2.0	4.66	4.2	4.83	6.5	5.11	8.7	5.48	10.7	5.92	12.5	6.42	13.8	6.96	14.7	7.54
	155					2.0	4.66	4.1	4.83	6.2	5.11	8.4	5.48	10.3	5.92	12.0	6.42	13.3	6.96	14.1	7.54
	160					1.9	4.66	3.9	4.83	6.0	5.11	8.1	5.48	10.0	5.92	11.6	6.42	12.8	6.96	13.5	7.54
	165					1.8	4.66	3.8	4.83	5.8	5.11	7.8	5.48	9.6	5.92	11.1	6.42	12.3	6.96	12.9	7.54
	170					1.7	4.66	3.6	4.83	5.6	5.11	7.5	5.48	9.2	5.92	10.7	6.42	11.7	6.96	12.3	7.54
	175					1.7	4.66	3.5	4.83	5.4	5.11	7.2	5.48	8.8	5.92	10.2	6.42	11.2	6.96	11.7	7.54
	180					1.6	4.66	3.3	4.83	5.1	5.11	6.9	5.48	8.5	5.92	9.8	6.42	10.7	6.96	11.1	7.54
	185					1.5	4.66	3.2	4.83	4.9	5.11	6.6	5.48	8.1	5.92	9.3	6.42	10.2	6.96	10.5	7.54
	190					1.4	4.66	3.0	4.83	4.7	5.11	6.3	5.48	7.7	5.92	8.9	6.42	9.6	6.96	9.9	7.54
	195					1.4	4.66	2.9	4.83	4.5	5.11	6.0	5.48	7.3	5.92	8.4	6.42	9.1	6.96	9.3	7.54
	200					1.3	4.66	2.7	4.83	4.2	5.11	5.7	5.48	7.0	5.92	8.0	6.42	8.6	6.96	8.7	7.54
	205					1.2	4.66	2.6	4.83	4.0	5.11	5.4	5.48	6.6	5.92	7.5	6.42	8.1	6.96	8.1	7.54
	210					1.1	4.66	2.4	4.83	3.8	5.11	5.1	5.48	6.2	5.92	7.1	6.42	7.5	6.96	7.5	7.54
215					1.1	4.66	2.3	4.83	3.6	5.11	4.8	5.48	5.8	5.92	6.6	6.42	7.0	6.96	6.9	7.54	
220					1.0	4.66	2.1	4.83	3.3	5.11	4.5	5.48	5.5	5.92	6.2	6.42	6.5	6.96	6.3	7.54	
225					0.9	4.66	2.0	4.83	3.1	5.11	4.2	5.48	5.1	5.92	5.7	6.42	6.0	6.96	5.7	7.54	
8	150					2.2	4.66	4.5	4.83	6.7	5.11	8.7	5.48	10.4	5.92	11.8	6.42	12.7	6.96		
	155					2.1	4.66	4.3	4.83	6.4	5.11	8.4	5.48	10.1	5.92	11.4	6.42	12.1	6.96		
	160					2.0	4.66	4.2	4.83	6.2	5.11	8.1	5.48	9.7	5.92	10.9	6.42	11.6	6.96		
	165					2.0	4.66	4.0	4.83	6.0	5.11	7.8	5.48	9.3	5.92	10.5	6.42	11.1	6.96		
	170					1.9	4.66	3.9	4.83	5.8	5.11	7.5	5.48	8.9	5.92	10.0	6.42	10.6	6.96		
	175					1.8	4.66	3.7	4.83	5.5	5.11	7.2	5.48	8.6	5.92	9.6	6.42	10.0	6.96		
	180					1.8	4.66	3.6	4.83	5.3	5.11	6.9	5.48	8.2	5.92	9.1	6.42	9.5	6.96		
	185					1.7	4.66	3.4	4.83	5.1	5.11	6.6	5.48	7.8	5.92	8.7	6.42	9.0	6.96		
	190					1.6	4.66	3.3	4.83	4.9	5.11	6.3	5.48	7.4	5.92	8.2	6.42	8.5	6.96		
	195					1.5	4.66	3.1	4.83	4.6	5.11	6.0	5.48	7.1	5.92	7.8	6.42	7.9	6.96		
	200					1.5	4.66	3.0	4.83	4.4	5.11	5.7	5.48	6.7	5.92	7.3	6.42	7.4	6.96		
	205					1.4	4.66	2.8	4.83	4.2	5.11	5.4	5.48	6.3	5.92	6.9	6.42	6.9	6.96		
	210					1.3	4.66	2.7	4.83	4.0	5.11	5.1	5.48	6.0	5.92	6.4	6.42	6.4	6.96		
215					1.2	4.66	2.5	4.83	3.7	5.11	4.8	5.48	5.6	5.92	6.0	6.42	5.8	6.96			
220					1.2	4.66	2.4	4.83	3.5	5.11	4.5	5.48	5.2	5.92	5.5	6.42	5.3	6.96			
225					1.1	4.66	2.2	4.83	3.3	5.11	4.2	5.48	4.8	5.92	5.1	6.42	4.8	6.96			

Table C.3. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4	8	12	16	20	24	28	32	36							
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
12	155					2.2	4.66	4.3	4.83	6.3	5.11	7.9	5.48	9.2	5.92	10.0	6.42		
	160					2.1	4.66	4.2	4.83	6.0	5.11	7.6	5.48	8.9	5.92	9.6	6.42		
	165					2.0	4.66	4.0	4.83	5.8	5.11	7.3	5.48	8.5	5.92	9.1	6.42		
	170					2.0	4.66	3.9	4.83	5.6	5.11	7.0	5.48	8.1	5.92	8.7	6.42		
	175					1.9	4.66	3.7	4.83	5.4	5.11	6.8	5.48	7.7	5.92	8.2	6.42		
	180					1.8	4.66	3.6	4.83	5.1	5.11	6.5	5.48	7.4	5.92	7.8	6.42		
	185					1.7	4.66	3.4	4.83	4.9	5.11	6.2	5.48	7.0	5.92	7.3	6.42		
	190					1.7	4.66	3.3	4.83	4.7	5.11	5.9	5.48	6.6	5.92	6.9	6.42		
	195					1.6	4.66	3.1	4.83	4.5	5.11	5.6	5.48	6.2	5.92	6.4	6.42		
	200					1.5	4.66	3.0	4.83	4.2	5.11	5.3	5.48	5.9	5.92	6.0	6.42		
	205					1.4	4.66	2.8	4.83	4.0	5.11	5.0	5.48	5.5	5.92	5.5	6.42		
	210					1.4	4.66	2.7	4.83	3.8	5.11	4.7	5.48	5.1	5.92	5.1	6.42		
	215					1.3	4.66	2.5	4.83	3.6	5.11	4.4	5.48	4.7	5.92	4.6	6.42		
220					1.2	4.66	2.4	4.83	3.4	5.11	4.1	5.48	4.4	5.92	4.2	6.42			
225					1.1	4.66	2.2	4.83	3.1	5.11	3.8	5.48	4.0	5.92	3.7	6.42			
16	155							2.1	4.66	4.1	4.83	5.8	5.11	7.1	5.48	7.8	5.92		
	160							2.1	4.66	3.9	4.83	5.5	5.11	6.8	5.48	7.5	5.92		
	165							2.0	4.66	3.8	4.83	5.3	5.11	6.5	5.48	7.1	5.92		
	170							1.9	4.66	3.6	4.83	5.1	5.11	6.2	5.48	6.7	5.92		
	175							1.8	4.66	3.5	4.83	4.9	5.11	5.9	5.48	6.3	5.92		
	180							1.8	4.66	3.3	4.83	4.6	5.11	5.6	5.48	6.0	5.92		
	185							1.7	4.66	3.2	4.83	4.4	5.11	5.3	5.48	5.6	5.92		
	190							1.6	4.66	3.0	4.83	4.2	5.11	5.0	5.48	5.2	5.92		
	195							1.5	4.66	2.9	4.83	4.0	5.11	4.7	5.48	4.8	5.92		
	200							1.5	4.66	2.7	4.83	3.7	5.11	4.4	5.48	4.5	5.92		
	205							1.4	4.66	2.6	4.83	3.5	5.11	4.1	5.48	4.1	5.92		
	210							1.3	4.66	2.4	4.83	3.3	5.11	3.8	5.48	3.7	5.92		
	215							1.2	4.66	2.3	4.83	3.1	5.11	3.5	5.48	3.3	5.92		
220							1.2	4.66	2.1	4.83	2.9	5.11	3.2	5.48	3.0	5.92			
225							1.1	4.66	2.0	4.83	2.6	5.11	2.9	5.48	2.6	5.92			
20	155									2.0	4.66	3.6	4.83	4.9	5.11	5.7	5.48		
	160									1.9	4.66	3.5	4.83	4.7	5.11	5.4	5.48		
	165									1.8	4.66	3.3	4.83	4.5	5.11	5.1	5.48		
	170									1.7	4.66	3.2	4.83	4.3	5.11	4.8	5.48		

Table C.3. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4		8		12		16		20		24		28		32	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
175												1.7	4.66	3.0	4.83	4.0	5.11	4.5	5.48
180												1.6	4.66	2.9	4.83	3.8	5.11	4.2	5.48
185												1.5	4.66	2.7	4.83	3.6	5.11	3.9	5.48
190												1.4	4.66	2.6	4.83	3.4	5.11	3.6	5.48
195												1.4	4.66	2.4	4.83	3.1	5.11	3.3	5.48
200												1.3	4.66	2.3	4.83	2.9	5.11	3.0	5.48
205												1.2	4.66	2.1	4.83	2.7	5.11	2.7	5.48
210												1.1	4.66	2.0	4.83	2.5	5.11	2.4	5.48
215												1.1	4.66	1.8	4.83	2.2	5.11	2.1	5.48
220												1.0	4.66	1.7	4.83	2.0	5.11	1.8	5.48
225												0.9	4.66	1.5	4.83	1.8	5.11	1.5	5.48

Table C.4. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 3)	160	0.9	4.65	2.1	4.79	3.6	5.03	5.2	5.34	6.8	5.72	8.4	6.15	9.9	6.62	11.2	7.13	12.1	7.67	12.7	8.22
	165	0.9	4.65	2.0	4.79	3.4	5.03	4.9	5.34	6.5	5.72	8.1	6.15	9.5	6.62	10.7	7.13	11.7	7.67	12.2	8.22
	170	0.8	4.65	1.9	4.79	3.3	5.03	4.7	5.34	6.3	5.72	7.8	6.15	9.2	6.62	10.3	7.13	11.2	7.67	11.7	8.22
	175	0.7	4.65	1.8	4.79	3.1	5.03	4.5	5.34	6.0	5.72	7.5	6.15	8.8	6.62	9.9	7.13	10.7	7.67	11.1	8.22
	180	0.7	4.65	1.7	4.79	2.9	5.03	4.3	5.34	5.8	5.72	7.1	6.15	8.4	6.62	9.5	7.13	10.2	7.67	10.6	8.22
	185	0.6	4.65	1.6	4.79	2.8	5.03	4.1	5.34	5.5	5.72	6.8	6.15	8.1	6.62	9.1	7.13	9.8	7.67	10.1	8.22
	190	0.6	4.65	1.5	4.79	2.6	5.03	3.9	5.34	5.2	5.72	6.5	6.15	7.7	6.62	8.6	7.13	9.3	7.67	9.6	8.22
	195	0.5	4.65	1.4	4.79	2.5	5.03	3.7	5.34	5.0	5.72	6.2	6.15	7.3	6.62	8.2	7.13	8.8	7.67	9.0	8.22
	200	0.5	4.65	1.3	4.79	2.3	5.03	3.5	5.34	4.7	5.72	5.9	6.15	6.9	6.62	7.8	7.13	8.3	7.67	8.5	8.22
	205	0.4	4.65	1.2	4.79	2.1	5.03	3.3	5.34	4.4	5.72	5.6	6.15	6.6	6.62	7.4	7.13	7.9	7.67	8.0	8.22
	210	0.4	4.65	1.1	4.79	2.0	5.03	3.1	5.34	4.2	5.72	5.3	6.15	6.2	6.62	7.0	7.13	7.4	7.67	7.5	8.22
	215	0.3	4.65	1.0	4.79	1.8	5.03	2.8	5.34	3.9	5.72	4.9	6.15	5.8	6.62	6.5	7.13	6.9	7.67	6.9	8.22
	220	0.3	4.65	0.9	4.79	1.7	5.03	2.6	5.34	3.6	5.72	4.6	6.15	5.5	6.62	6.1	7.13	6.5	7.67	6.4	8.22
	225	0.2	4.65	0.8	4.79	1.5	5.03	2.4	5.34	3.4	5.72	4.3	6.15	5.1	6.62	5.7	7.13	6.0	7.67	5.9	8.22
230	0.2	4.65	0.6	4.79	1.4	5.03	2.2	5.34	3.1	5.72	4.0	6.15	4.7	6.62	5.3	7.13	5.5	7.67	5.3	8.22	
36 (Gd 3)	160			1.2	4.65	2.7	4.79	4.3	5.03	5.9	5.34	7.5	5.72	9.0	6.15	10.3	6.62	11.2	7.13	11.8	7.67
	165			1.2	4.65	2.6	4.79	4.1	5.03	5.7	5.34	7.3	5.72	8.7	6.15	9.9	6.62	10.8	7.13	11.3	7.67
	170			1.1	4.65	2.5	4.79	3.9	5.03	5.5	5.34	7.0	5.72	8.4	6.15	9.5	6.62	10.4	7.13	10.9	7.67
	175			1.1	4.65	2.4	4.79	3.8	5.03	5.3	5.34	6.7	5.72	8.1	6.15	9.2	6.62	10.0	7.13	10.4	7.67
	180			1.0	4.65	2.3	4.79	3.6	5.03	5.1	5.34	6.5	5.72	7.7	6.15	8.8	6.62	9.6	7.13	9.9	7.67
	185			1.0	4.65	2.1	4.79	3.5	5.03	4.9	5.34	6.2	5.72	7.4	6.15	8.4	6.62	9.1	7.13	9.4	7.67
	190			0.9	4.65	2.0	4.79	3.3	5.03	4.6	5.34	5.9	5.72	7.1	6.15	8.1	6.62	8.7	7.13	9.0	7.67
	195			0.9	4.65	1.9	4.79	3.2	5.03	4.4	5.34	5.7	5.72	6.8	6.15	7.7	6.62	8.3	7.13	8.5	7.67
	200			0.8	4.65	1.8	4.79	3.0	5.03	4.2	5.34	5.4	5.72	6.5	6.15	7.3	6.62	7.9	7.13	8.0	7.67
	205			0.7	4.65	1.7	4.79	2.8	5.03	4.0	5.34	5.1	5.72	6.2	6.15	7.0	6.62	7.4	7.13	7.6	7.67
	210			0.7	4.65	1.6	4.79	2.7	5.03	3.8	5.34	4.9	5.72	5.8	6.15	6.6	6.62	7.0	7.13	7.1	7.67
	215			0.6	4.65	1.5	4.79	2.5	5.03	3.6	5.34	4.6	5.72	5.5	6.15	6.2	6.62	6.6	7.13	6.6	7.67
	220			0.6	4.65	1.4	4.79	2.4	5.03	3.4	5.34	4.4	5.72	5.2	6.15	5.8	6.62	6.2	7.13	6.1	7.67
	225			0.5	4.65	1.3	4.79	2.2	5.03	3.2	5.34	4.1	5.72	4.9	6.15	5.5	6.62	5.8	7.13	5.7	7.67
230			0.5	4.65	1.2	4.79	2.1	5.03	3.0	5.34	3.8	5.72	4.6	6.15	5.1	6.62	5.3	7.13	5.2	7.67	
4	160					1.5	4.65	3.0	4.79	4.7	5.03	6.3	5.34	7.8	5.72	9.1	6.15	10.0	6.62	10.6	7.13
	165					1.4	4.65	2.9	4.79	4.5	5.03	6.1	5.34	7.5	5.72	8.7	6.15	9.7	6.62	10.2	7.13

Table C.4. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	170			1.3	4.65	2.8	4.79	4.4	5.03	5.9	5.34	7.3	5.72	8.4	6.15	9.3	6.62	9.8	7.13		
	175			1.3	4.65	2.7	4.79	4.2	5.03	5.7	5.34	7.0	5.72	8.1	6.15	8.9	6.62	9.3	7.13		
	180			1.2	4.65	2.6	4.79	4.1	5.03	5.5	5.34	6.7	5.72	7.8	6.15	8.5	6.62	8.9	7.13		
	185			1.2	4.65	2.5	4.79	3.9	5.03	5.2	5.34	6.5	5.72	7.5	6.15	8.2	6.62	8.5	7.13		
	190			1.1	4.65	2.4	4.79	3.7	5.03	5.0	5.34	6.2	5.72	7.2	6.15	7.8	6.62	8.1	7.13		
	195			1.1	4.65	2.3	4.79	3.6	5.03	4.8	5.34	5.9	5.72	6.8	6.15	7.4	6.62	7.7	7.13		
	200			1.0	4.65	2.2	4.79	3.4	5.03	4.6	5.34	5.7	5.72	6.5	6.15	7.1	6.62	7.2	7.13		
	205			1.0	4.65	2.1	4.79	3.3	5.03	4.4	5.34	5.4	5.72	6.2	6.15	6.7	6.62	6.8	7.13		
	210			0.9	4.65	2.0	4.79	3.1	5.03	4.2	5.34	5.1	5.72	5.9	6.15	6.3	6.62	6.4	7.13		
	215			0.9	4.65	1.9	4.79	3.0	5.03	4.0	5.34	4.9	5.72	5.6	6.15	6.0	6.62	6.0	7.13		
	220			0.8	4.65	1.8	4.79	2.8	5.03	3.8	5.34	4.6	5.72	5.3	6.15	5.6	6.62	5.5	7.13		
	225			0.8	4.65	1.7	4.79	2.6	5.03	3.6	5.34	4.4	5.72	4.9	6.15	5.2	6.62	5.1	7.13		
	230			0.7	4.65	1.6	4.79	2.5	5.03	3.3	5.34	4.1	5.72	4.6	6.15	4.9	6.62	4.7	7.13		
8	160					1.6	4.65	3.2	4.79	4.8	5.03	6.3	5.34	7.6	5.72	8.6	6.15	9.1	6.62		
	165					1.5	4.65	3.1	4.79	4.7	5.03	6.1	5.34	7.3	5.72	8.3	6.15	8.8	6.62		
	170					1.5	4.65	3.0	4.79	4.5	5.03	5.9	5.34	7.1	5.72	7.9	6.15	8.4	6.62		
	175					1.4	4.65	2.9	4.79	4.4	5.03	5.7	5.34	6.8	5.72	7.6	6.15	8.0	6.62		
	180					1.4	4.65	2.8	4.79	4.2	5.03	5.5	5.34	6.5	5.72	7.3	6.15	7.7	6.62		
	185					1.3	4.65	2.7	4.79	4.1	5.03	5.3	5.34	6.3	5.72	7.0	6.15	7.3	6.62		
	190					1.3	4.65	2.6	4.79	3.9	5.03	5.1	5.34	6.0	5.72	6.7	6.15	6.9	6.62		
	195					1.2	4.65	2.5	4.79	3.7	5.03	4.9	5.34	5.8	5.72	6.4	6.15	6.6	6.62		
	200					1.2	4.65	2.4	4.79	3.6	5.03	4.6	5.34	5.5	5.72	6.0	6.15	6.2	6.62		
	205					1.1	4.65	2.3	4.79	3.4	5.03	4.4	5.34	5.2	5.72	5.7	6.15	5.8	6.62		
	210					1.1	4.65	2.2	4.79	3.3	5.03	4.2	5.34	5.0	5.72	5.4	6.15	5.5	6.62		
	215					1.0	4.65	2.1	4.79	3.1	5.03	4.0	5.34	4.7	5.72	5.1	6.15	5.1	6.62		
	220					1.0	4.65	2.0	4.79	3.0	5.03	3.8	5.34	4.4	5.72	4.8	6.15	4.7	6.62		
	225					0.9	4.65	1.9	4.79	2.8	5.03	3.6	5.34	4.2	5.72	4.5	6.15	4.4	6.62		
	230					0.9	4.65	1.8	4.79	2.6	5.03	3.4	5.34	3.9	5.72	4.2	6.15	4.0	6.62		
12	165							1.6	4.65	3.2	4.79	4.6	5.03	5.8	5.34	6.7	5.72	7.2	6.15		
	170							1.5	4.65	3.0	4.79	4.4	5.03	5.6	5.34	6.5	5.72	6.9	6.15		
	175							1.5	4.65	2.9	4.79	4.3	5.03	5.4	5.34	6.2	5.72	6.6	6.15		
	180							1.4	4.65	2.8	4.79	4.1	5.03	5.2	5.34	5.9	5.72	6.3	6.15		
	185							1.4	4.65	2.7	4.79	4.0	5.03	5.0	5.34	5.7	5.72	6.0	6.15		
	190							1.3	4.65	2.6	4.79	3.8	5.03	4.7	5.34	5.4	5.72	5.7	6.15		

Table C.4. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4	8	12	16	20	24	28	32	36							
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	195					1.3	4.65	2.5	4.79	3.6	5.03	4.5	5.34	5.1	5.72	5.3	6.15		
	200					1.2	4.65	2.4	4.79	3.5	5.03	4.3	5.34	4.9	5.72	5.0	6.15		
	205					1.2	4.65	2.3	4.79	3.3	5.03	4.1	5.34	4.6	5.72	4.7	6.15		
	210					1.1	4.65	2.2	4.79	3.2	5.03	3.9	5.34	4.3	5.72	4.4	6.15		
	215					1.1	4.65	2.1	4.79	3.0	5.03	3.7	5.34	4.1	5.72	4.1	6.15		
	220					1.0	4.65	2.0	4.79	2.8	5.03	3.5	5.34	3.8	5.72	3.8	6.15		
	225					1.0	4.65	1.9	4.79	2.7	5.03	3.3	5.34	3.6	5.72	3.5	6.15		
	230					0.9	4.65	1.8	4.79	2.5	5.03	3.1	5.34	3.3	5.72	3.1	6.15		
16	165							1.6	4.65	3.0	4.79	4.2	5.03	5.1	5.34	5.7	5.72		
	170							1.5	4.65	2.9	4.79	4.1	5.03	4.9	5.34	5.4	5.72		
	175							1.5	4.65	2.8	4.79	3.9	5.03	4.7	5.34	5.1	5.72		
	180							1.4	4.65	2.7	4.79	3.7	5.03	4.5	5.34	4.9	5.72		
	185							1.4	4.65	2.6	4.79	3.6	5.03	4.3	5.34	4.6	5.72		
	190							1.3	4.65	2.5	4.79	3.4	5.03	4.1	5.34	4.3	5.72		
	195							1.2	4.65	2.4	4.79	3.3	5.03	3.9	5.34	4.1	5.72		
	200							1.2	4.65	2.3	4.79	3.1	5.03	3.7	5.34	3.8	5.72		
	205							1.1	4.65	2.2	4.79	2.9	5.03	3.4	5.34	3.5	5.72		
	210							1.1	4.65	2.0	4.79	2.8	5.03	3.2	5.34	3.3	5.72		
	215							1.0	4.65	1.9	4.79	2.6	5.03	3.0	5.34	3.0	5.72		
	220							1.0	4.65	1.8	4.79	2.5	5.03	2.8	5.34	2.8	5.72		
	225							0.9	4.65	1.7	4.79	2.3	5.03	2.6	5.34	2.5	5.72		
230							0.9	4.65	1.6	4.79	2.2	5.03	2.4	5.34	2.2	5.72			
20	165									1.4	4.65	2.7	4.79	3.6	5.03	4.1	5.34		
	170									1.4	4.65	2.5	4.79	3.4	5.03	3.9	5.34		
	175									1.3	4.65	2.4	4.79	3.3	5.03	3.7	5.34		
	180									1.3	4.65	2.3	4.79	3.1	5.03	3.5	5.34		
	185									1.2	4.65	2.2	4.79	2.9	5.03	3.3	5.34		
	190									1.2	4.65	2.1	4.79	2.8	5.03	3.0	5.34		
	195									1.1	4.65	2.0	4.79	2.6	5.03	2.8	5.34		
	200									1.1	4.65	1.9	4.79	2.5	5.03	2.6	5.34		
	205									1.0	4.65	1.8	4.79	2.3	5.03	2.4	5.34		
	210									1.0	4.65	1.7	4.79	2.2	5.03	2.2	5.34		
	215									0.9	4.65	1.6	4.79	2.0	5.03	2.0	5.34		
220									0.9	4.65	1.5	4.79	1.8	5.03	1.8	5.34			

Table C.4. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4		8		12		16		20		24		28		32	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
225												0.8	4.65	1.4	4.79	1.7	5.03	1.6	5.34
230												0.8	4.65	1.3	4.79	1.5	5.03	1.4	5.34

Table C.5. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 4)	165	0.7	4.65	1.7	4.79	2.8	5.03	4.1	5.34	5.4	5.72	6.6	6.15	7.7	6.62	8.6	7.12	9.2	7.66	9.5	8.21
	170	0.7	4.65	1.6	4.79	2.7	5.03	3.9	5.34	5.2	5.72	6.4	6.15	7.4	6.62	8.3	7.12	8.9	7.66	9.2	8.21
	175	0.6	4.65	1.5	4.79	2.6	5.03	3.8	5.34	5.0	5.72	6.1	6.15	7.2	6.62	8.0	7.12	8.6	7.66	8.8	8.21
	180	0.6	4.65	1.5	4.79	2.5	5.03	3.6	5.34	4.8	5.72	5.9	6.15	6.9	6.62	7.7	7.12	8.2	7.66	8.4	8.21
	185	0.6	4.65	1.4	4.79	2.4	5.03	3.5	5.34	4.6	5.72	5.7	6.15	6.6	6.62	7.4	7.12	7.9	7.66	8.0	8.21
	190	0.5	4.65	1.3	4.79	2.3	5.03	3.3	5.34	4.4	5.72	5.5	6.15	6.4	6.62	7.1	7.12	7.5	7.66	7.7	8.21
	195	0.5	4.65	1.2	4.79	2.2	5.03	3.2	5.34	4.2	5.72	5.2	6.15	6.1	6.62	6.8	7.12	7.2	7.66	7.3	8.21
	200	0.5	4.65	1.2	4.79	2.0	5.03	3.0	5.34	4.0	5.72	5.0	6.15	5.8	6.62	6.5	7.12	6.9	7.66	6.9	8.21
	205	0.4	4.65	1.1	4.79	1.9	5.03	2.9	5.34	3.8	5.72	4.8	6.15	5.6	6.62	6.2	7.12	6.5	7.66	6.5	8.21
	210	0.4	4.65	1.0	4.79	1.8	5.03	2.7	5.34	3.7	5.72	4.5	6.15	5.3	6.62	5.9	7.12	6.2	7.66	6.1	8.21
	215	0.3	4.65	0.9	4.79	1.7	5.03	2.6	5.34	3.5	5.72	4.3	6.15	5.0	6.62	5.6	7.12	5.8	7.66	5.8	8.21
	220	0.3	4.65	0.9	4.79	1.6	5.03	2.4	5.34	3.3	5.72	4.1	6.15	4.8	6.62	5.3	7.12	5.5	7.66	5.4	8.21
	225	0.3	4.65	0.8	4.79	1.5	5.03	2.3	5.34	3.1	5.72	3.9	6.15	4.5	6.62	5.0	7.12	5.2	7.66	5.0	8.21
	230	0.2	4.65	0.7	4.79	1.4	5.03	2.1	5.34	2.9	5.72	3.6	6.15	4.3	6.62	4.7	7.12	4.8	7.66	4.6	8.21
235	0.2	4.65	0.6	4.79	1.3	5.03	2.0	5.34	2.7	5.72	3.4	6.15	4.0	6.62	4.4	7.12	4.5	7.66	4.3	8.21	
36 (Gd 4)	165			1.0	4.65	2.1	4.79	3.4	5.03	4.6	5.34	5.9	5.72	7.0	6.15	7.9	6.62	8.5	7.12	8.8	7.66
	170			0.9	4.65	2.0	4.79	3.3	5.03	4.5	5.34	5.7	5.72	6.7	6.15	7.6	6.62	8.2	7.12	8.5	7.66
	175			0.9	4.65	2.0	4.79	3.1	5.03	4.3	5.34	5.5	5.72	6.5	6.15	7.4	6.62	7.9	7.12	8.1	7.66
	180			0.9	4.65	1.9	4.79	3.0	5.03	4.2	5.34	5.3	5.72	6.3	6.15	7.1	6.62	7.6	7.12	7.8	7.66
	185			0.8	4.65	1.8	4.79	2.9	5.03	4.0	5.34	5.1	5.72	6.1	6.15	6.8	6.62	7.3	7.12	7.5	7.66
	190			0.8	4.65	1.7	4.79	2.8	5.03	3.9	5.34	4.9	5.72	5.8	6.15	6.6	6.62	7.0	7.12	7.1	7.66
	195			0.7	4.65	1.7	4.79	2.7	5.03	3.7	5.34	4.7	5.72	5.6	6.15	6.3	6.62	6.7	7.12	6.8	7.66
	200			0.7	4.65	1.6	4.79	2.6	5.03	3.6	5.34	4.5	5.72	5.4	6.15	6.0	6.62	6.4	7.12	6.4	7.66
	205			0.7	4.65	1.5	4.79	2.5	5.03	3.4	5.34	4.4	5.72	5.2	6.15	5.8	6.62	6.1	7.12	6.1	7.66
	210			0.6	4.65	1.4	4.79	2.3	5.03	3.3	5.34	4.2	5.72	4.9	6.15	5.5	6.62	5.8	7.12	5.8	7.66
	215			0.6	4.65	1.4	4.79	2.2	5.03	3.1	5.34	4.0	5.72	4.7	6.15	5.2	6.62	5.5	7.12	5.4	7.66
	220			0.6	4.65	1.3	4.79	2.1	5.03	3.0	5.34	3.8	5.72	4.5	6.15	5.0	6.62	5.2	7.12	5.1	7.66
	225			0.5	4.65	1.2	4.79	2.0	5.03	2.8	5.34	3.6	5.72	4.3	6.15	4.7	6.62	4.9	7.12	4.8	7.66
	230			0.5	4.65	1.1	4.79	1.9	5.03	2.7	5.34	3.4	5.72	4.0	6.15	4.5	6.62	4.6	7.12	4.4	7.66
235			0.4	4.65	1.1	4.79	1.8	5.03	2.5	5.34	3.2	5.72	3.8	6.15	4.2	6.62	4.3	7.12	4.1	7.66	
4	170					1.1	4.65	2.3	4.79	3.6	5.03	4.7	5.34	5.8	5.72	6.7	6.15	7.3	6.62	7.6	7.12
	175					1.1	4.65	2.2	4.79	3.4	5.03	4.6	5.34	5.6	5.72	6.5	6.15	7.0	6.62	7.3	7.12

Table C.5. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	180			1.0	4.65	2.2	4.79	3.3	5.03	4.4	5.34	5.4	5.72	6.2	6.15	6.8	6.62	6.9	7.12		
	185			1.0	4.65	2.1	4.79	3.2	5.03	4.3	5.34	5.2	5.72	6.0	6.15	6.5	6.62	6.6	7.12		
	190			1.0	4.65	2.0	4.79	3.1	5.03	4.1	5.34	5.1	5.72	5.8	6.15	6.2	6.62	6.3	7.12		
	195			0.9	4.65	1.9	4.79	3.0	5.03	4.0	5.34	4.9	5.72	5.6	6.15	6.0	6.62	6.0	7.12		
	200			0.9	4.65	1.9	4.79	2.9	5.03	3.8	5.34	4.7	5.72	5.3	6.15	5.7	6.62	5.7	7.12		
	205			0.8	4.65	1.8	4.79	2.8	5.03	3.7	5.34	4.5	5.72	5.1	6.15	5.4	6.62	5.4	7.12		
	210			0.8	4.65	1.7	4.79	2.7	5.03	3.5	5.34	4.3	5.72	4.9	6.15	5.2	6.62	5.1	7.12		
	215			0.8	4.65	1.6	4.79	2.5	5.03	3.4	5.34	4.1	5.72	4.7	6.15	4.9	6.62	4.8	7.12		
	220			0.7	4.65	1.6	4.79	2.4	5.03	3.2	5.34	3.9	5.72	4.4	6.15	4.7	6.62	4.5	7.12		
	225			0.7	4.65	1.5	4.79	2.3	5.03	3.1	5.34	3.7	5.72	4.2	6.15	4.4	6.62	4.2	7.12		
	230			0.7	4.65	1.4	4.79	2.2	5.03	2.9	5.34	3.6	5.72	4.0	6.15	4.1	6.62	3.9	7.12		
	235			0.6	4.65	1.3	4.79	2.1	5.03	2.8	5.34	3.4	5.72	3.7	6.15	3.9	6.62	3.6	7.12		
8	170					1.2	4.65	2.4	4.79	3.6	5.03	4.7	5.34	5.6	5.72	6.2	6.15	6.4	6.62		
	175					1.2	4.65	2.4	4.79	3.5	5.03	4.6	5.34	5.4	5.72	6.0	6.15	6.2	6.62		
	180					1.1	4.65	2.3	4.79	3.4	5.03	4.4	5.34	5.2	5.72	5.7	6.15	5.9	6.62		
	185					1.1	4.65	2.2	4.79	3.3	5.03	4.3	5.34	5.0	5.72	5.5	6.15	5.7	6.62		
	190					1.1	4.65	2.1	4.79	3.2	5.03	4.1	5.34	4.8	5.72	5.3	6.15	5.4	6.62		
	195					1.0	4.65	2.1	4.79	3.1	5.03	4.0	5.34	4.6	5.72	5.1	6.15	5.1	6.62		
	200					1.0	4.65	2.0	4.79	3.0	5.03	3.8	5.34	4.4	5.72	4.8	6.15	4.9	6.62		
	205					0.9	4.65	1.9	4.79	2.8	5.03	3.7	5.34	4.3	5.72	4.6	6.15	4.6	6.62		
	210					0.9	4.65	1.8	4.79	2.7	5.03	3.5	5.34	4.1	5.72	4.4	6.15	4.3	6.62		
	215					0.9	4.65	1.8	4.79	2.6	5.03	3.3	5.34	3.9	5.72	4.1	6.15	4.1	6.62		
	220					0.8	4.65	1.7	4.79	2.5	5.03	3.2	5.34	3.7	5.72	3.9	6.15	3.8	6.62		
	225					0.8	4.65	1.6	4.79	2.4	5.03	3.0	5.34	3.5	5.72	3.7	6.15	3.5	6.62		
	230					0.8	4.65	1.5	4.79	2.3	5.03	2.9	5.34	3.3	5.72	3.5	6.15	3.3	6.62		
	235					0.7	4.65	1.5	4.79	2.2	5.03	2.7	5.34	3.1	5.72	3.2	6.15	3.0	6.62		
12	170							1.2	4.65	2.4	4.79	3.5	5.03	4.4	5.34	5.0	5.72	5.2	6.15		
	175							1.2	4.65	2.4	4.79	3.4	5.03	4.2	5.34	4.8	5.72	5.0	6.15		
	180							1.2	4.65	2.3	4.79	3.3	5.03	4.1	5.34	4.6	5.72	4.8	6.15		
	185							1.1	4.65	2.2	4.79	3.2	5.03	3.9	5.34	4.4	5.72	4.6	6.15		
	190							1.1	4.65	2.1	4.79	3.0	5.03	3.8	5.34	4.2	5.72	4.3	6.15		
	195							1.1	4.65	2.1	4.79	2.9	5.03	3.6	5.34	4.0	5.72	4.1	6.15		
	200							1.0	4.65	2.0	4.79	2.8	5.03	3.5	5.34	3.8	5.72	3.9	6.15		
	205							1.0	4.65	1.9	4.79	2.7	5.03	3.3	5.34	3.7	5.72	3.7	6.15		

Table C.5. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	210							0.9	4.65	1.8	4.79	2.6	5.03	3.2	5.34	3.5	5.72	3.4	6.15		
	215							0.9	4.65	1.8	4.79	2.5	5.03	3.0	5.34	3.3	5.72	3.2	6.15		
	220							0.9	4.65	1.7	4.79	2.4	5.03	2.9	5.34	3.1	5.72	3.0	6.15		
	225							0.8	4.65	1.6	4.79	2.3	5.03	2.7	5.34	2.9	5.72	2.8	6.15		
	230							0.8	4.65	1.5	4.79	2.1	5.03	2.6	5.34	2.7	5.72	2.5	6.15		
	235							0.8	4.65	1.4	4.79	2.0	5.03	2.4	5.34	2.5	5.72	2.3	6.15		
16	170									1.2	4.65	2.3	4.79	3.1	5.03	3.7	5.34	4.0	5.72		
	175									1.2	4.65	2.2	4.79	3.0	5.03	3.6	5.34	3.8	5.72		
	180									1.1	4.65	2.1	4.79	2.9	5.03	3.4	5.34	3.6	5.72		
	185									1.1	4.65	2.0	4.79	2.8	5.03	3.3	5.34	3.4	5.72		
	190									1.0	4.65	2.0	4.79	2.7	5.03	3.1	5.34	3.2	5.72		
	195									1.0	4.65	1.9	4.79	2.6	5.03	3.0	5.34	3.1	5.72		
	200									1.0	4.65	1.8	4.79	2.5	5.03	2.8	5.34	2.9	5.72		
	205									0.9	4.65	1.7	4.79	2.3	5.03	2.7	5.34	2.7	5.72		
	210									0.9	4.65	1.7	4.79	2.2	5.03	2.5	5.34	2.5	5.72		
	215									0.9	4.65	1.6	4.79	2.1	5.03	2.4	5.34	2.3	5.72		
	220									0.8	4.65	1.5	4.79	2.0	5.03	2.2	5.34	2.1	5.72		
	225									0.8	4.65	1.4	4.79	1.9	5.03	2.1	5.34	1.9	5.72		
	230									0.7	4.65	1.4	4.79	1.8	5.03	1.9	5.34	1.7	5.72		
	235									0.7	4.65	1.3	4.79	1.7	5.03	1.8	5.34	1.6	5.72		
20	170											1.1	4.65	1.9	4.79	2.6	5.03	2.8	5.34		
	175											1.0	4.65	1.9	4.79	2.4	5.03	2.7	5.34		
	180											1.0	4.65	1.8	4.79	2.3	5.03	2.5	5.34		
	185											1.0	4.65	1.7	4.79	2.2	5.03	2.4	5.34		
	190											0.9	4.65	1.6	4.79	2.1	5.03	2.2	5.34		
	195											0.9	4.65	1.6	4.79	2.0	5.03	2.1	5.34		
	200											0.8	4.65	1.5	4.79	1.9	5.03	1.9	5.34		
	205											0.8	4.65	1.4	4.79	1.8	5.03	1.8	5.34		
	210											0.8	4.65	1.3	4.79	1.6	5.03	1.6	5.34		
	215											0.7	4.65	1.3	4.79	1.5	5.03	1.5	5.34		
	220											0.7	4.65	1.2	4.79	1.4	5.03	1.3	5.34		
	225											0.7	4.65	1.1	4.79	1.3	5.03	1.2	5.34		
	230											0.6	4.65	1.0	4.79	1.2	5.03	1.0	5.34		
	235											0.6	4.65	1.0	4.79	1.1	5.03	0.9	5.34		

Table C.6. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 6

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 5)	170	0.4	4.65	1.1	4.80	1.9	5.03	2.8	5.35	3.8	5.73	4.7	6.16	5.6	6.64	6.3	7.15	6.9	7.68	7.2	8.24
	175	0.4	4.65	1.0	4.80	1.8	5.03	2.7	5.35	3.6	5.73	4.6	6.16	5.4	6.64	6.1	7.15	6.6	7.68	6.9	8.24
	180	0.4	4.65	1.0	4.80	1.7	5.03	2.6	5.35	3.5	5.73	4.4	6.16	5.2	6.64	5.9	7.15	6.4	7.68	6.7	8.24
	185	0.4	4.65	0.9	4.80	1.7	5.03	2.5	5.35	3.4	5.73	4.2	6.16	5.0	6.64	5.7	7.15	6.2	7.68	6.4	8.24
	190	0.3	4.65	0.9	4.80	1.6	5.03	2.4	5.35	3.2	5.73	4.1	6.16	4.8	6.64	5.5	7.15	5.9	7.68	6.1	8.24
	195	0.3	4.65	0.8	4.80	1.5	5.03	2.3	5.35	3.1	5.73	3.9	6.16	4.6	6.64	5.2	7.15	5.7	7.68	5.8	8.24
	200	0.3	4.65	0.8	4.80	1.4	5.03	2.2	5.35	3.0	5.73	3.7	6.16	4.4	6.64	5.0	7.15	5.4	7.68	5.6	8.24
	205	0.2	4.65	0.7	4.80	1.3	5.03	2.0	5.35	2.8	5.73	3.6	6.16	4.3	6.64	4.8	7.15	5.2	7.68	5.3	8.24
	210	0.2	4.65	0.7	4.80	1.2	5.03	1.9	5.35	2.7	5.73	3.4	6.16	4.1	6.64	4.6	7.15	4.9	7.68	5.0	8.24
	215	0.2	4.65	0.6	4.80	1.2	5.03	1.8	5.35	2.5	5.73	3.2	6.16	3.9	6.64	4.4	7.15	4.7	7.68	4.7	8.24
	220	0.2	4.65	0.5	4.80	1.1	5.03	1.7	5.35	2.4	5.73	3.1	6.16	3.7	6.64	4.2	7.15	4.4	7.68	4.5	8.24
	225	0.1	4.65	0.5	4.80	1.0	5.03	1.6	5.35	2.3	5.73	2.9	6.16	3.5	6.64	3.9	7.15	4.2	7.68	4.2	8.24
	230	0.1	4.65	0.4	4.80	0.9	5.03	1.5	5.35	2.1	5.73	2.8	6.16	3.3	6.64	3.7	7.15	4.0	7.68	3.9	8.24
235	0.1	4.65	0.4	4.80	0.8	5.03	1.4	5.35	2.0	5.73	2.6	6.16	3.1	6.64	3.5	7.15	3.7	7.68	3.7	8.24	
240	0.1	4.65	0.3	4.80	0.8	5.03	1.3	5.35	1.9	5.73	2.4	6.16	2.9	6.64	3.3	7.15	3.5	7.68	3.4	8.24	
36 (Gd 5)	170			0.7	4.65	1.5	4.80	2.4	5.03	3.3	5.35	4.3	5.73	5.2	6.16	5.9	6.64	6.5	7.15	6.8	7.68
	175			0.6	4.65	1.4	4.80	2.3	5.03	3.2	5.35	4.1	5.73	5.0	6.16	5.7	6.64	6.2	7.15	6.5	7.68
	180			0.6	4.65	1.4	4.80	2.2	5.03	3.1	5.35	4.0	5.73	4.8	6.16	5.5	6.64	6.0	7.15	6.3	7.68
	185			0.6	4.65	1.3	4.80	2.1	5.03	3.0	5.35	3.9	5.73	4.7	6.16	5.3	6.64	5.8	7.15	6.0	7.68
	190			0.5	4.65	1.2	4.80	2.1	5.03	2.9	5.35	3.7	5.73	4.5	6.16	5.1	6.64	5.6	7.15	5.8	7.68
	195			0.5	4.65	1.2	4.80	2.0	5.03	2.8	5.35	3.6	5.73	4.3	6.16	4.9	6.64	5.4	7.15	5.5	7.68
	200			0.5	4.65	1.1	4.80	1.9	5.03	2.7	5.35	3.5	5.73	4.2	6.16	4.8	6.64	5.2	7.15	5.3	7.68
	205			0.5	4.65	1.1	4.80	1.8	5.03	2.6	5.35	3.3	5.73	4.0	6.16	4.6	6.64	4.9	7.15	5.1	7.68
	210			0.4	4.65	1.0	4.80	1.7	5.03	2.5	5.35	3.2	5.73	3.9	6.16	4.4	6.64	4.7	7.15	4.8	7.68
	215			0.4	4.65	1.0	4.80	1.6	5.03	2.4	5.35	3.1	5.73	3.7	6.16	4.2	6.64	4.5	7.15	4.6	7.68
	220			0.4	4.65	0.9	4.80	1.6	5.03	2.3	5.35	2.9	5.73	3.5	6.16	4.0	6.64	4.3	7.15	4.3	7.68
	225			0.4	4.65	0.9	4.80	1.5	5.03	2.1	5.35	2.8	5.73	3.4	6.16	3.8	6.64	4.1	7.15	4.1	7.68
	230			0.3	4.65	0.8	4.80	1.4	5.03	2.0	5.35	2.7	5.73	3.2	6.16	3.6	6.64	3.8	7.15	3.8	7.68
235			0.3	4.65	0.8	4.80	1.3	5.03	1.9	5.35	2.5	5.73	3.0	6.16	3.4	6.64	3.6	7.15	3.6	7.68	
240			0.3	4.65	0.7	4.80	1.2	5.03	1.8	5.35	2.4	5.73	2.9	6.16	3.2	6.64	3.4	7.15	3.3	7.68	
4	175					0.8	4.65	1.7	4.80	2.6	5.03	3.5	5.35	4.4	5.73	5.1	6.16	5.6	6.64	5.9	7.15

Table C.6. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 6

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	180			0.8	4.65	1.6	4.80	2.5	5.03	3.4	5.35	4.2	5.73	4.9	6.16	5.4	6.64	5.7	7.15		
	185			0.7	4.65	1.6	4.80	2.4	5.03	3.3	5.35	4.1	5.73	4.8	6.16	5.2	6.64	5.5	7.15		
	190			0.7	4.65	1.5	4.80	2.4	5.03	3.2	5.35	4.0	5.73	4.6	6.16	5.0	6.64	5.2	7.15		
	195			0.7	4.65	1.5	4.80	2.3	5.03	3.1	5.35	3.8	5.73	4.4	6.16	4.9	6.64	5.0	7.15		
	200			0.7	4.65	1.4	4.80	2.2	5.03	3.0	5.35	3.7	5.73	4.3	6.16	4.7	6.64	4.8	7.15		
	205			0.6	4.65	1.3	4.80	2.1	5.03	2.9	5.35	3.6	5.73	4.1	6.16	4.5	6.64	4.6	7.15		
	210			0.6	4.65	1.3	4.80	2.0	5.03	2.8	5.35	3.4	5.73	3.9	6.16	4.3	6.64	4.4	7.15		
	215			0.6	4.65	1.2	4.80	2.0	5.03	2.7	5.35	3.3	5.73	3.8	6.16	4.1	6.64	4.2	7.15		
	220			0.5	4.65	1.2	4.80	1.9	5.03	2.5	5.35	3.1	5.73	3.6	6.16	3.9	6.64	3.9	7.15		
	225			0.5	4.65	1.1	4.80	1.8	5.03	2.4	5.35	3.0	5.73	3.5	6.16	3.7	6.64	3.7	7.15		
	230			0.5	4.65	1.1	4.80	1.7	5.03	2.3	5.35	2.9	5.73	3.3	6.16	3.5	6.64	3.5	7.15		
	235			0.5	4.65	1.0	4.80	1.6	5.03	2.2	5.35	2.7	5.73	3.1	6.16	3.3	6.64	3.3	7.15		
	240			0.4	4.65	1.0	4.80	1.5	5.03	2.1	5.35	2.6	5.73	3.0	6.16	3.1	6.64	3.1	7.15		
8	175					0.9	4.65	1.8	4.80	2.7	5.03	3.6	5.35	4.3	5.73	4.8	6.16	5.1	6.64		
	180					0.9	4.65	1.8	4.80	2.7	5.03	3.5	5.35	4.2	5.73	4.7	6.16	4.9	6.64		
	185					0.8	4.65	1.7	4.80	2.6	5.03	3.4	5.35	4.0	5.73	4.5	6.16	4.7	6.64		
	190					0.8	4.65	1.7	4.80	2.5	5.03	3.3	5.35	3.9	5.73	4.3	6.16	4.5	6.64		
	195					0.8	4.65	1.6	4.80	2.4	5.03	3.2	5.35	3.8	5.73	4.2	6.16	4.4	6.64		
	200					0.8	4.65	1.6	4.80	2.3	5.03	3.0	5.35	3.6	5.73	4.0	6.16	4.2	6.64		
	205					0.7	4.65	1.5	4.80	2.3	5.03	2.9	5.35	3.5	5.73	3.9	6.16	4.0	6.64		
	210					0.7	4.65	1.4	4.80	2.2	5.03	2.8	5.35	3.4	5.73	3.7	6.16	3.8	6.64		
	215					0.7	4.65	1.4	4.80	2.1	5.03	2.7	5.35	3.2	5.73	3.5	6.16	3.6	6.64		
	220					0.6	4.65	1.3	4.80	2.0	5.03	2.6	5.35	3.1	5.73	3.4	6.16	3.4	6.64		
	225					0.6	4.65	1.3	4.80	1.9	5.03	2.5	5.35	2.9	5.73	3.2	6.16	3.2	6.64		
	230					0.6	4.65	1.2	4.80	1.8	5.03	2.4	5.35	2.8	5.73	3.0	6.16	3.0	6.64		
	235					0.6	4.65	1.2	4.80	1.8	5.03	2.3	5.35	2.7	5.73	2.9	6.16	2.8	6.64		
	240					0.5	4.65	1.1	4.80	1.7	5.03	2.2	5.35	2.5	5.73	2.7	6.16	2.6	6.64		
12	175					0.9	4.65	1.9	4.80	2.7	5.03	3.4	5.35	3.9	5.73	4.2	6.16				
	180					0.9	4.65	1.8	4.80	2.6	5.03	3.3	5.35	3.8	5.73	4.1	6.16				
	185					0.9	4.65	1.7	4.80	2.5	5.03	3.2	5.35	3.7	5.73	3.9	6.16				
	190					0.9	4.65	1.7	4.80	2.5	5.03	3.1	5.35	3.5	5.73	3.7	6.16				
	195					0.8	4.65	1.6	4.80	2.4	5.03	3.0	5.35	3.4	5.73	3.6	6.16				
	200					0.8	4.65	1.6	4.80	2.3	5.03	2.9	5.35	3.3	5.73	3.4	6.16				
	205					0.8	4.65	1.5	4.80	2.2	5.03	2.8	5.35	3.1	5.73	3.2	6.16				

Table C.6. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 6

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	210									0.7	4.65	1.5	4.80	2.1	5.03	2.7	5.35	3.0	5.73	3.1	6.16
	215									0.7	4.65	1.4	4.80	2.0	5.03	2.5	5.35	2.9	5.73	2.9	6.16
	220									0.7	4.65	1.4	4.80	2.0	5.03	2.4	5.35	2.7	5.73	2.8	6.16
	225									0.7	4.65	1.3	4.80	1.9	5.03	2.3	5.35	2.6	5.73	2.6	6.16
	230									0.6	4.65	1.3	4.80	1.8	5.03	2.2	5.35	2.5	5.73	2.4	6.16
	235									0.6	4.65	1.2	4.80	1.7	5.03	2.1	5.35	2.3	5.73	2.3	6.16
	240									0.6	4.65	1.1	4.80	1.6	5.03	2.0	5.35	2.2	5.73	2.1	6.16
16	175											0.9	4.65	1.8	4.80	2.5	5.03	3.0	5.35	3.3	5.73
	180											0.9	4.65	1.7	4.80	2.4	5.03	2.9	5.35	3.2	5.73
	185											0.9	4.65	1.7	4.80	2.3	5.03	2.8	5.35	3.0	5.73
	190											0.8	4.65	1.6	4.80	2.2	5.03	2.7	5.35	2.9	5.73
	195											0.8	4.65	1.6	4.80	2.2	5.03	2.6	5.35	2.8	5.73
	200											0.8	4.65	1.5	4.80	2.1	5.03	2.5	5.35	2.6	5.73
	205											0.8	4.65	1.4	4.80	2.0	5.03	2.4	5.35	2.5	5.73
	210											0.7	4.65	1.4	4.80	1.9	5.03	2.3	5.35	2.3	5.73
	215											0.7	4.65	1.3	4.80	1.8	5.03	2.1	5.35	2.2	5.73
	220											0.7	4.65	1.3	4.80	1.8	5.03	2.0	5.35	2.1	5.73
	225											0.7	4.65	1.2	4.80	1.7	5.03	1.9	5.35	1.9	5.73
	230											0.6	4.65	1.2	4.80	1.6	5.03	1.8	5.35	1.8	5.73
	235											0.6	4.65	1.1	4.80	1.5	5.03	1.7	5.35	1.7	5.73
	240											0.6	4.65	1.1	4.80	1.4	5.03	1.6	5.35	1.5	5.73
20	175													0.9	4.65	1.6	4.80	2.1	5.03	2.4	5.35
	180													0.8	4.65	1.5	4.80	2.0	5.03	2.3	5.35
	185													0.8	4.65	1.5	4.80	1.9	5.03	2.2	5.35
	190													0.8	4.65	1.4	4.80	1.9	5.03	2.1	5.35
	195													0.7	4.65	1.4	4.80	1.8	5.03	1.9	5.35
	200													0.7	4.65	1.3	4.80	1.7	5.03	1.8	5.35
	205													0.7	4.65	1.2	4.80	1.6	5.03	1.7	5.35
	210													0.7	4.65	1.2	4.80	1.5	5.03	1.6	5.35
	215													0.6	4.65	1.1	4.80	1.4	5.03	1.5	5.35
	220													0.6	4.65	1.1	4.80	1.4	5.03	1.4	5.35
	225													0.6	4.65	1.0	4.80	1.3	5.03	1.3	5.35
	230													0.6	4.65	1.0	4.80	1.2	5.03	1.2	5.35
	235													0.5	4.65	0.9	4.80	1.1	5.03	1.1	5.35

Table C.6. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 6

Start Inst. Wk	Start RIT	Ending Instructional Weeks																					
		Prior Grd		Focal Grade																			
		36		4		8		12		16		20		24		28		32		36			
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
240														0.5	4.65	0.9	4.80	1.0	5.03	1.0	5.35		

Table C.7. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 7

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 6)	175	0.4	4.65	0.9	4.80	1.6	5.04	2.4	5.36	3.3	5.75	4.2	6.19	5.0	6.67	5.8	7.18	6.5	7.73	7.0	8.29
	180	0.3	4.65	0.9	4.80	1.5	5.04	2.3	5.36	3.1	5.75	4.0	6.19	4.8	6.67	5.6	7.18	6.2	7.73	6.7	8.29
	185	0.3	4.65	0.8	4.80	1.4	5.04	2.2	5.36	3.0	5.75	3.8	6.19	4.6	6.67	5.3	7.18	5.9	7.73	6.3	8.29
	190	0.3	4.65	0.7	4.80	1.3	5.04	2.0	5.36	2.8	5.75	3.6	6.19	4.3	6.67	5.0	7.18	5.6	7.73	6.0	8.29
	195	0.2	4.65	0.7	4.80	1.2	5.04	1.9	5.36	2.6	5.75	3.4	6.19	4.1	6.67	4.7	7.18	5.3	7.73	5.6	8.29
	200	0.2	4.65	0.6	4.80	1.1	5.04	1.7	5.36	2.4	5.75	3.2	6.19	3.8	6.67	4.4	7.18	4.9	7.73	5.3	8.29
	205	0.2	4.65	0.5	4.80	1.0	5.04	1.6	5.36	2.3	5.75	2.9	6.19	3.6	6.67	4.2	7.18	4.6	7.73	4.9	8.29
	210	0.1	4.65	0.4	4.80	0.9	5.04	1.5	5.36	2.1	5.75	2.7	6.19	3.3	6.67	3.9	7.18	4.3	7.73	4.6	8.29
	215	0.1	4.65	0.4	4.80	0.8	5.04	1.3	5.36	1.9	5.75	2.5	6.19	3.1	6.67	3.6	7.18	4.0	7.73	4.3	8.29
	220	0.1	4.65	0.3	4.80	0.7	5.04	1.2	5.36	1.7	5.75	2.3	6.19	2.9	6.67	3.3	7.18	3.7	7.73	3.9	8.29
	225	0.0	4.65	0.2	4.80	0.6	5.04	1.1	5.36	1.6	5.75	2.1	6.19	2.6	6.67	3.1	7.18	3.4	7.73	3.6	8.29
	230	0.0	4.65	0.2	4.80	0.5	5.04	0.9	5.36	1.4	5.75	1.9	6.19	2.4	6.67	2.8	7.18	3.1	7.73	3.2	8.29
	235	-0.1	4.65	0.1	4.80	0.4	5.04	0.8	5.36	1.2	5.75	1.7	6.19	2.1	6.67	2.5	7.18	2.8	7.73	2.9	8.29
	240	-0.1	4.65	0.0	4.80	0.3	5.04	0.6	5.36	1.1	5.75	1.5	6.19	1.9	6.67	2.2	7.18	2.5	7.73	2.5	8.29
245	-0.1	4.65	0.0	4.80	0.2	5.04	0.5	5.36	0.9	5.75	1.3	6.19	1.7	6.67	2.0	7.18	2.1	7.73	2.2	8.29	
36 (Gd 6)	175			0.6	4.65	1.3	4.80	2.1	5.04	2.9	5.36	3.8	5.75	4.7	6.19	5.5	6.67	6.1	7.18	6.7	7.73
	180			0.5	4.65	1.2	4.80	2.0	5.04	2.8	5.36	3.6	5.75	4.5	6.19	5.2	6.67	5.9	7.18	6.3	7.73
	185			0.5	4.65	1.1	4.80	1.9	5.04	2.7	5.36	3.5	5.75	4.3	6.19	5.0	6.67	5.6	7.18	6.0	7.73
	190			0.5	4.65	1.1	4.80	1.8	5.04	2.5	5.36	3.3	5.75	4.1	6.19	4.7	6.67	5.3	7.18	5.7	7.73
	195			0.4	4.65	1.0	4.80	1.7	5.04	2.4	5.36	3.1	5.75	3.8	6.19	4.5	6.67	5.0	7.18	5.4	7.73
	200			0.4	4.65	0.9	4.80	1.6	5.04	2.2	5.36	3.0	5.75	3.6	6.19	4.2	6.67	4.7	7.18	5.1	7.73
	205			0.4	4.65	0.9	4.80	1.4	5.04	2.1	5.36	2.8	5.75	3.4	6.19	4.0	6.67	4.5	7.18	4.8	7.73
	210			0.3	4.65	0.8	4.80	1.3	5.04	2.0	5.36	2.6	5.75	3.2	6.19	3.8	6.67	4.2	7.18	4.5	7.73
	215			0.3	4.65	0.7	4.80	1.2	5.04	1.8	5.36	2.4	5.75	3.0	6.19	3.5	6.67	3.9	7.18	4.2	7.73
	220			0.3	4.65	0.6	4.80	1.1	5.04	1.7	5.36	2.3	5.75	2.8	6.19	3.3	6.67	3.6	7.18	3.8	7.73
	225			0.2	4.65	0.6	4.80	1.0	5.04	1.6	5.36	2.1	5.75	2.6	6.19	3.0	6.67	3.4	7.18	3.5	7.73
	230			0.2	4.65	0.5	4.80	0.9	5.04	1.4	5.36	1.9	5.75	2.4	6.19	2.8	6.67	3.1	7.18	3.2	7.73
	235			0.1	4.65	0.4	4.80	0.8	5.04	1.3	5.36	1.7	5.75	2.2	6.19	2.6	6.67	2.8	7.18	2.9	7.73
	240			0.1	4.65	0.4	4.80	0.7	5.04	1.1	5.36	1.6	5.75	2.0	6.19	2.3	6.67	2.5	7.18	2.6	7.73
245			0.1	4.65	0.3	4.80	0.6	5.04	1.0	5.36	1.4	5.75	1.8	6.19	2.1	6.67	2.3	7.18	2.3	7.73	
4	175					0.7	4.65	1.5	4.80	2.4	5.04	3.3	5.36	4.1	5.75	4.9	6.19	5.6	6.67	6.1	7.18
	180					0.7	4.65	1.4	4.80	2.3	5.04	3.1	5.36	3.9	5.75	4.7	6.19	5.3	6.67	5.8	7.18

Table C.7. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 7

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	185			0.6	4.65	1.4	4.80	2.2	5.04	3.0	5.36	3.8	5.75	4.5	6.19	5.1	6.67	5.5	7.18		
	190			0.6	4.65	1.3	4.80	2.1	5.04	2.8	5.36	3.6	5.75	4.3	6.19	4.8	6.67	5.3	7.18		
	195			0.6	4.65	1.2	4.80	2.0	5.04	2.7	5.36	3.4	5.75	4.1	6.19	4.6	6.67	5.0	7.18		
	200			0.5	4.65	1.2	4.80	1.9	5.04	2.6	5.36	3.3	5.75	3.9	6.19	4.4	6.67	4.7	7.18		
	205			0.5	4.65	1.1	4.80	1.8	5.04	2.4	5.36	3.1	5.75	3.7	6.19	4.1	6.67	4.4	7.18		
	210			0.5	4.65	1.0	4.80	1.7	5.04	2.3	5.36	2.9	5.75	3.4	6.19	3.9	6.67	4.2	7.18		
	215			0.4	4.65	1.0	4.80	1.5	5.04	2.2	5.36	2.7	5.75	3.2	6.19	3.6	6.67	3.9	7.18		
	220			0.4	4.65	0.9	4.80	1.4	5.04	2.0	5.36	2.6	5.75	3.0	6.19	3.4	6.67	3.6	7.18		
	225			0.4	4.65	0.8	4.80	1.3	5.04	1.9	5.36	2.4	5.75	2.8	6.19	3.2	6.67	3.3	7.18		
	230			0.3	4.65	0.8	4.80	1.2	5.04	1.7	5.36	2.2	5.75	2.6	6.19	2.9	6.67	3.0	7.18		
	235			0.3	4.65	0.7	4.80	1.1	5.04	1.6	5.36	2.0	5.75	2.4	6.19	2.7	6.67	2.8	7.18		
	240			0.3	4.65	0.6	4.80	1.0	5.04	1.5	5.36	1.9	5.75	2.2	6.19	2.4	6.67	2.5	7.18		
	245			0.2	4.65	0.5	4.80	0.9	5.04	1.3	5.36	1.7	5.75	2.0	6.19	2.2	6.67	2.2	7.18		
8	180					0.8	4.65	1.6	4.80	2.5	5.04	3.3	5.36	4.0	5.75	4.7	6.19	5.1	6.67		
	185					0.7	4.65	1.5	4.80	2.4	5.04	3.1	5.36	3.9	5.75	4.5	6.19	4.9	6.67		
	190					0.7	4.65	1.5	4.80	2.2	5.04	3.0	5.36	3.7	5.75	4.2	6.19	4.7	6.67		
	195					0.7	4.65	1.4	4.80	2.1	5.04	2.9	5.36	3.5	5.75	4.0	6.19	4.4	6.67		
	200					0.6	4.65	1.3	4.80	2.0	5.04	2.7	5.36	3.3	5.75	3.8	6.19	4.2	6.67		
	205					0.6	4.65	1.3	4.80	1.9	5.04	2.6	5.36	3.2	5.75	3.6	6.19	3.9	6.67		
	210					0.6	4.65	1.2	4.80	1.8	5.04	2.4	5.36	3.0	5.75	3.4	6.19	3.7	6.67		
	215					0.5	4.65	1.1	4.80	1.7	5.04	2.3	5.36	2.8	5.75	3.2	6.19	3.5	6.67		
	220					0.5	4.65	1.1	4.80	1.6	5.04	2.2	5.36	2.6	5.75	3.0	6.19	3.2	6.67		
	225					0.5	4.65	1.0	4.80	1.5	5.04	2.0	5.36	2.5	5.75	2.8	6.19	3.0	6.67		
	230					0.4	4.65	0.9	4.80	1.4	5.04	1.9	5.36	2.3	5.75	2.6	6.19	2.7	6.67		
	235					0.4	4.65	0.8	4.80	1.3	5.04	1.8	5.36	2.1	5.75	2.4	6.19	2.5	6.67		
	240					0.4	4.65	0.8	4.80	1.2	5.04	1.6	5.36	2.0	5.75	2.2	6.19	2.2	6.67		
	245					0.3	4.65	0.7	4.80	1.1	5.04	1.5	5.36	1.8	5.75	2.0	6.19	2.0	6.67		
12	180					0.8	4.65	1.7	4.80	2.5	5.04	3.3	5.36	4.0	5.75	4.7	6.19	5.1	6.67		
	185					0.8	4.65	1.6	4.80	2.4	5.04	3.1	5.36	3.9	5.75	4.5	6.19	4.9	6.67		
	190					0.8	4.65	1.5	4.80	2.3	5.04	3.0	5.36	3.7	5.75	4.2	6.19	4.7	6.67		
	195					0.7	4.65	1.5	4.80	2.2	5.04	2.9	5.36	3.5	5.75	4.0	6.19	4.4	6.67		
	200					0.7	4.65	1.4	4.80	2.1	5.04	2.7	5.36	3.3	5.75	3.8	6.19	4.2	6.67		
	205					0.7	4.65	1.3	4.80	2.0	5.04	2.6	5.36	3.2	5.75	3.6	6.19	3.9	6.67		
	210					0.6	4.65	1.3	4.80	1.9	5.04	2.4	5.36	3.0	5.75	3.4	6.19	3.7	6.67		

Table C.7. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 7

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	215							0.6	4.65	1.2	4.80	1.8	5.04	2.3	5.36	2.7	5.75	2.9	6.19		
	220							0.6	4.65	1.1	4.80	1.7	5.04	2.1	5.36	2.5	5.75	2.7	6.19		
	225							0.5	4.65	1.1	4.80	1.6	5.04	2.0	5.36	2.3	5.75	2.5	6.19		
	230							0.5	4.65	1.0	4.80	1.5	5.04	1.9	5.36	2.2	5.75	2.3	6.19		
	235							0.5	4.65	0.9	4.80	1.4	5.04	1.7	5.36	2.0	5.75	2.1	6.19		
	240							0.4	4.65	0.9	4.80	1.3	5.04	1.6	5.36	1.8	5.75	1.9	6.19		
	245							0.4	4.65	0.8	4.80	1.2	5.04	1.5	5.36	1.6	5.75	1.7	6.19		
16	180									0.9	4.65	1.7	4.80	2.4	5.04	3.1	5.36	3.5	5.75		
	185									0.8	4.65	1.6	4.80	2.3	5.04	2.9	5.36	3.4	5.75		
	190									0.8	4.65	1.5	4.80	2.2	5.04	2.8	5.36	3.2	5.75		
	195									0.7	4.65	1.5	4.80	2.1	5.04	2.6	5.36	3.0	5.75		
	200									0.7	4.65	1.4	4.80	2.0	5.04	2.5	5.36	2.9	5.75		
	205									0.7	4.65	1.3	4.80	1.9	5.04	2.4	5.36	2.7	5.75		
	210									0.6	4.65	1.3	4.80	1.8	5.04	2.2	5.36	2.5	5.75		
	215									0.6	4.65	1.2	4.80	1.7	5.04	2.1	5.36	2.3	5.75		
	220									0.6	4.65	1.1	4.80	1.6	5.04	2.0	5.36	2.2	5.75		
	225									0.5	4.65	1.1	4.80	1.5	5.04	1.8	5.36	2.0	5.75		
	230									0.5	4.65	1.0	4.80	1.4	5.04	1.7	5.36	1.8	5.75		
	235									0.5	4.65	0.9	4.80	1.3	5.04	1.5	5.36	1.6	5.75		
	240									0.4	4.65	0.8	4.80	1.2	5.04	1.4	5.36	1.5	5.75		
	245									0.4	4.65	0.8	4.80	1.1	5.04	1.3	5.36	1.3	5.75		
20	180											0.8	4.65	1.6	4.80	2.2	5.04	2.7	5.36		
	185											0.8	4.65	1.5	4.80	2.1	5.04	2.6	5.36		
	190											0.8	4.65	1.4	4.80	2.0	5.04	2.4	5.36		
	195											0.7	4.65	1.4	4.80	1.9	5.04	2.3	5.36		
	200											0.7	4.65	1.3	4.80	1.8	5.04	2.1	5.36		
	205											0.7	4.65	1.2	4.80	1.7	5.04	2.0	5.36		
	210											0.6	4.65	1.2	4.80	1.6	5.04	1.9	5.36		
	215											0.6	4.65	1.1	4.80	1.5	5.04	1.7	5.36		
	220											0.5	4.65	1.0	4.80	1.4	5.04	1.6	5.36		
	225											0.5	4.65	1.0	4.80	1.3	5.04	1.5	5.36		
	230											0.5	4.65	0.9	4.80	1.2	5.04	1.3	5.36		
	235											0.4	4.65	0.8	4.80	1.1	5.04	1.2	5.36		
	240											0.4	4.65	0.7	4.80	1.0	5.04	1.0	5.36		

Table C.7. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 7

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd				Focal Grade															
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
245														0.4	4.65	0.7	4.80	0.9	5.04	0.9	5.36

Table C.8. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 7)	175	0.6	4.66	1.5	4.86	2.4	5.16	3.4	5.57	4.4	6.04	5.4	6.58	6.3	7.16	7.1	7.78	7.7	8.42	8.2	9.09
	180	0.6	4.66	1.4	4.86	2.2	5.16	3.2	5.57	4.1	6.04	5.1	6.58	6.0	7.16	6.7	7.78	7.3	8.42	7.7	9.09
	185	0.5	4.66	1.3	4.86	2.1	5.16	3.0	5.57	3.9	6.04	4.8	6.58	5.6	7.16	6.3	7.78	6.9	8.42	7.2	9.09
	190	0.5	4.66	1.2	4.86	1.9	5.16	2.8	5.57	3.6	6.04	4.5	6.58	5.3	7.16	5.9	7.78	6.4	8.42	6.7	9.09
	195	0.4	4.66	1.1	4.86	1.8	5.16	2.6	5.57	3.4	6.04	4.2	6.58	4.9	7.16	5.5	7.78	6.0	8.42	6.2	9.09
	200	0.4	4.66	1.0	4.86	1.6	5.16	2.4	5.57	3.1	6.04	3.9	6.58	4.6	7.16	5.1	7.78	5.5	8.42	5.7	9.09
	205	0.3	4.66	0.9	4.86	1.5	5.16	2.2	5.57	2.9	6.04	3.6	6.58	4.2	7.16	4.7	7.78	5.1	8.42	5.2	9.09
	210	0.3	4.66	0.8	4.86	1.3	5.16	2.0	5.57	2.7	6.04	3.3	6.58	3.9	7.16	4.3	7.78	4.6	8.42	4.7	9.09
	215	0.2	4.66	0.7	4.86	1.2	5.16	1.8	5.57	2.4	6.04	3.0	6.58	3.5	7.16	3.9	7.78	4.2	8.42	4.2	9.09
	220	0.2	4.66	0.6	4.86	1.0	5.16	1.6	5.57	2.2	6.04	2.7	6.58	3.2	7.16	3.5	7.78	3.7	8.42	3.7	9.09
	225	0.1	4.66	0.5	4.86	0.9	5.16	1.4	5.57	1.9	6.04	2.4	6.58	2.8	7.16	3.1	7.78	3.3	8.42	3.2	9.09
	230	0.1	4.66	0.4	4.86	0.7	5.16	1.2	5.57	1.7	6.04	2.1	6.58	2.5	7.16	2.7	7.78	2.8	8.42	2.7	9.09
	235	0.1	4.66	0.3	4.86	0.6	5.16	1.0	5.57	1.4	6.04	1.8	6.58	2.1	7.16	2.3	7.78	2.4	8.42	2.2	9.09
	240	0.0	4.66	0.2	4.86	0.4	5.16	0.8	5.57	1.2	6.04	1.5	6.58	1.8	7.16	1.9	7.78	1.9	8.42	1.7	9.09
	245	-0.1	4.66	0.1	4.86	0.3	5.16	0.6	5.57	0.9	6.04	1.2	6.58	1.4	7.16	1.5	7.78	1.5	8.42	1.2	9.09
250	-0.1	4.66	0.0	4.86	0.1	5.16	0.4	5.57	0.7	6.04	0.9	6.58	1.1	7.16	1.1	7.78	1.0	8.42	0.7	9.09	
36 (Gd 7)	180			0.8	4.66	1.6	4.86	2.6	5.16	3.5	5.57	4.5	6.04	5.4	6.58	6.1	7.16	6.7	7.78	7.1	8.42
	185			0.7	4.66	1.5	4.86	2.4	5.16	3.4	5.57	4.2	6.04	5.1	6.58	5.8	7.16	6.3	7.78	6.6	8.42
	190			0.7	4.66	1.4	4.86	2.3	5.16	3.2	5.57	4.0	6.04	4.8	6.58	5.4	7.16	5.9	7.78	6.2	8.42
	195			0.6	4.66	1.3	4.86	2.1	5.16	3.0	5.57	3.7	6.04	4.5	6.58	5.1	7.16	5.5	7.78	5.7	8.42
	200			0.6	4.66	1.2	4.86	2.0	5.16	2.8	5.57	3.5	6.04	4.2	6.58	4.7	7.16	5.1	7.78	5.3	8.42
	205			0.5	4.66	1.1	4.86	1.8	5.16	2.6	5.57	3.3	6.04	3.9	6.58	4.4	7.16	4.7	7.78	4.8	8.42
	210			0.5	4.66	1.0	4.86	1.7	5.16	2.4	5.57	3.0	6.04	3.6	6.58	4.0	7.16	4.3	7.78	4.4	8.42
	215			0.4	4.66	0.9	4.86	1.5	5.16	2.2	5.57	2.8	6.04	3.3	6.58	3.7	7.16	3.9	7.78	4.0	8.42
	220			0.4	4.66	0.8	4.86	1.4	5.16	2.0	5.57	2.5	6.04	3.0	6.58	3.3	7.16	3.5	7.78	3.5	8.42
	225			0.3	4.66	0.7	4.86	1.2	5.16	1.8	5.57	2.3	6.04	2.7	6.58	3.0	7.16	3.1	7.78	3.1	8.42
	230			0.3	4.66	0.6	4.86	1.1	5.16	1.6	5.57	2.0	6.04	2.4	6.58	2.6	7.16	2.7	7.78	2.6	8.42
	235			0.2	4.66	0.5	4.86	0.9	5.16	1.4	5.57	1.8	6.04	2.1	6.58	2.3	7.16	2.3	7.78	2.2	8.42
	240			0.2	4.66	0.4	4.86	0.8	5.16	1.2	5.57	1.5	6.04	1.8	6.58	1.9	7.16	1.9	7.78	1.7	8.42
	245			0.1	4.66	0.3	4.86	0.6	5.16	1.0	5.57	1.3	6.04	1.5	6.58	1.6	7.16	1.5	7.78	1.3	8.42
	250			0.1	4.66	0.2	4.86	0.5	5.16	0.8	5.57	1.0	6.04	1.2	6.58	1.3	7.16	1.1	7.78	0.8	8.42
4	180					0.9	4.66	1.8	4.86	2.8	5.16	3.7	5.57	4.6	6.04	5.4	6.58	6.0	7.16	6.3	7.78

Table C.8. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	185			0.8	4.66	1.7	4.86	2.6	5.16	3.5	5.57	4.4	6.04	5.1	6.58	5.6	7.16	5.9	7.78		
	190			0.8	4.66	1.6	4.86	2.5	5.16	3.3	5.57	4.1	6.04	4.8	6.58	5.3	7.16	5.5	7.78		
	195			0.7	4.66	1.5	4.86	2.3	5.16	3.1	5.57	3.9	6.04	4.5	6.58	4.9	7.16	5.1	7.78		
	200			0.7	4.66	1.4	4.86	2.2	5.16	2.9	5.57	3.6	6.04	4.2	6.58	4.6	7.16	4.7	7.78		
	205			0.6	4.66	1.3	4.86	2.0	5.16	2.7	5.57	3.4	6.04	3.9	6.58	4.2	7.16	4.3	7.78		
	210			0.6	4.66	1.2	4.86	1.9	5.16	2.5	5.57	3.1	6.04	3.6	6.58	3.9	7.16	3.9	7.78		
	215			0.5	4.66	1.1	4.86	1.7	5.16	2.3	5.57	2.9	6.04	3.3	6.58	3.5	7.16	3.5	7.78		
	220			0.5	4.66	1.0	4.86	1.6	5.16	2.1	5.57	2.6	6.04	3.0	6.58	3.2	7.16	3.1	7.78		
	225			0.4	4.66	0.9	4.86	1.5	5.16	1.9	5.57	2.4	6.04	2.7	6.58	2.8	7.16	2.8	7.78		
	230			0.4	4.66	0.8	4.86	1.3	5.16	1.7	5.57	2.1	6.04	2.4	6.58	2.5	7.16	2.4	7.78		
	235			0.3	4.66	0.7	4.86	1.2	5.16	1.6	5.57	1.9	6.04	2.1	6.58	2.1	7.16	2.0	7.78		
	240			0.3	4.66	0.6	4.86	1.0	5.16	1.4	5.57	1.6	6.04	1.8	6.58	1.8	7.16	1.6	7.78		
	245			0.2	4.66	0.5	4.86	0.9	5.16	1.2	5.57	1.4	6.04	1.5	6.58	1.4	7.16	1.2	7.78		
	250			0.2	4.66	0.4	4.86	0.7	5.16	1.0	5.57	1.1	6.04	1.2	6.58	1.1	7.16	0.8	7.78		
8	180					1.0	4.66	1.9	4.86	2.9	5.16	3.7	5.57	4.5	6.04	5.1	6.58	5.5	7.16		
	185					0.9	4.66	1.8	4.86	2.7	5.16	3.5	5.57	4.2	6.04	4.8	6.58	5.1	7.16		
	190					0.9	4.66	1.7	4.86	2.6	5.16	3.3	5.57	4.0	6.04	4.5	6.58	4.8	7.16		
	195					0.8	4.66	1.6	4.86	2.4	5.16	3.1	5.57	3.7	6.04	4.2	6.58	4.4	7.16		
	200					0.8	4.66	1.5	4.86	2.3	5.16	2.9	5.57	3.5	6.04	3.9	6.58	4.1	7.16		
	205					0.7	4.66	1.4	4.86	2.1	5.16	2.7	5.57	3.2	6.04	3.6	6.58	3.7	7.16		
	210					0.7	4.66	1.3	4.86	2.0	5.16	2.5	5.57	3.0	6.04	3.3	6.58	3.4	7.16		
	215					0.6	4.66	1.2	4.86	1.8	5.16	2.3	5.57	2.8	6.04	3.0	6.58	3.0	7.16		
	220					0.6	4.66	1.1	4.86	1.7	5.16	2.1	5.57	2.5	6.04	2.7	6.58	2.7	7.16		
	225					0.5	4.66	1.0	4.86	1.5	5.16	1.9	5.57	2.3	6.04	2.4	6.58	2.3	7.16		
	230					0.5	4.66	0.9	4.86	1.4	5.16	1.7	5.57	2.0	6.04	2.1	6.58	2.0	7.16		
	235					0.4	4.66	0.8	4.86	1.2	5.16	1.5	5.57	1.8	6.04	1.8	6.58	1.6	7.16		
	240					0.4	4.66	0.7	4.86	1.1	5.16	1.4	5.57	1.5	6.04	1.5	6.58	1.3	7.16		
	245					0.3	4.66	0.6	4.86	0.9	5.16	1.2	5.57	1.3	6.04	1.2	6.58	0.9	7.16		
	250					0.3	4.66	0.5	4.86	0.8	5.16	1.0	5.57	1.0	6.04	0.9	6.58	0.6	7.16		
12	180					1.0	4.66	1.9	4.86	2.8	5.16	3.5	5.57	4.1	6.04	4.5	6.58				
	185					0.9	4.66	1.8	4.86	2.6	5.16	3.3	5.57	3.9	6.04	4.2	6.58				
	190					0.9	4.66	1.7	4.86	2.5	5.16	3.1	5.57	3.6	6.04	3.9	6.58				
	195					0.8	4.66	1.6	4.86	2.3	5.16	2.9	5.57	3.4	6.04	3.6	6.58				
	200					0.8	4.66	1.5	4.86	2.2	5.16	2.7	5.57	3.1	6.04	3.3	6.58				

Table C.8. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4	8	12	16	20	24	28	32	36							
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	205							0.7	4.66	1.4	4.86	2.0	5.16	2.6	5.57	2.9	6.04	3.0	6.58
	210							0.7	4.66	1.3	4.86	1.9	5.16	2.4	5.57	2.6	6.04	2.7	6.58
	215							0.6	4.66	1.2	4.86	1.7	5.16	2.2	5.57	2.4	6.04	2.4	6.58
	220							0.6	4.66	1.1	4.86	1.6	5.16	2.0	5.57	2.1	6.04	2.1	6.58
	225							0.5	4.66	1.0	4.86	1.4	5.16	1.8	5.57	1.9	6.04	1.8	6.58
	230							0.5	4.66	0.9	4.86	1.3	5.16	1.6	5.57	1.6	6.04	1.5	6.58
	235							0.4	4.66	0.8	4.86	1.2	5.16	1.4	5.57	1.4	6.04	1.2	6.58
	240							0.4	4.66	0.7	4.86	1.0	5.16	1.2	5.57	1.2	6.04	0.9	6.58
	245							0.3	4.66	0.6	4.86	0.9	5.16	1.0	5.57	0.9	6.04	0.6	6.58
	250							0.3	4.66	0.5	4.86	0.7	5.16	0.8	5.57	0.7	6.04	0.3	6.58
16	180									0.9	4.66	1.8	4.86	2.6	5.16	3.2	5.57	3.5	6.04
	185									0.9	4.66	1.7	4.86	2.4	5.16	3.0	5.57	3.3	6.04
	190									0.8	4.66	1.6	4.86	2.3	5.16	2.8	5.57	3.0	6.04
	195									0.8	4.66	1.5	4.86	2.1	5.16	2.6	5.57	2.8	6.04
	200									0.8	4.66	1.4	4.86	2.0	5.16	2.4	5.57	2.5	6.04
	205									0.7	4.66	1.3	4.86	1.8	5.16	2.2	5.57	2.3	6.04
	210									0.7	4.66	1.2	4.86	1.7	5.16	2.0	5.57	2.0	6.04
	215									0.6	4.66	1.1	4.86	1.5	5.16	1.8	5.57	1.8	6.04
	220									0.6	4.66	1.0	4.86	1.4	5.16	1.6	5.57	1.6	6.04
	225									0.5	4.66	0.9	4.86	1.2	5.16	1.4	5.57	1.3	6.04
	230									0.5	4.66	0.8	4.86	1.1	5.16	1.2	5.57	1.1	6.04
	235									0.4	4.66	0.7	4.86	0.9	5.16	1.0	5.57	0.8	6.04
	240									0.4	4.66	0.6	4.86	0.8	5.16	0.8	5.57	0.6	6.04
	245									0.3	4.66	0.5	4.86	0.6	5.16	0.6	5.57	0.3	6.04
	250									0.3	4.66	0.4	4.86	0.5	5.16	0.4	5.57	0.1	6.04
20	180											0.9	4.66	1.6	4.86	2.2	5.16	2.6	5.57
	185											0.8	4.66	1.5	4.86	2.1	5.16	2.4	5.57
	190											0.8	4.66	1.4	4.86	1.9	5.16	2.2	5.57
	195											0.7	4.66	1.3	4.86	1.8	5.16	2.0	5.57
	200											0.7	4.66	1.2	4.86	1.6	5.16	1.8	5.57
	205											0.6	4.66	1.1	4.86	1.5	5.16	1.6	5.57
	210											0.6	4.66	1.0	4.86	1.3	5.16	1.4	5.57
	215											0.5	4.66	0.9	4.86	1.2	5.16	1.2	5.57
	220											0.5	4.66	0.8	4.86	1.0	5.16	1.0	5.57

Table C.8. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																					
		Prior Grd		Focal Grade																			
		36		4		8		12		16		20		24		28		32		36			
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
225												0.4	4.66	0.7	4.86	0.9	5.16	0.8	5.57				
230												0.4	4.66	0.6	4.86	0.7	5.16	0.6	5.57				
235												0.3	4.66	0.5	4.86	0.6	5.16	0.4	5.57				
240												0.3	4.66	0.4	4.86	0.4	5.16	0.2	5.57				
245												0.2	4.66	0.3	4.86	0.3	5.16	0.0	5.57				
250												0.2	4.66	0.2	4.86	0.1	5.16	0.2	5.57				

Table C.9. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 9

Start Inst.	Start Wk	Start RIT	Ending Instructional Weeks																		
			Prior Grd		Focal Grade																
			36		4	8	12	16	20	24	28	32	36								
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 8)	180	0.0	4.69	0.2	4.98	0.4	5.42	0.8	5.98	1.2	6.63	1.6	7.35	2.1	8.11	2.7	8.92	3.2	9.75	3.7	10.60
	185	0.0	4.69	0.1	4.98	0.4	5.42	0.7	5.98	1.1	6.63	1.5	7.35	2.0	8.11	2.5	8.92	3.0	9.75	3.4	10.60
	190	0.0	4.69	0.1	4.98	0.3	5.42	0.6	5.98	0.9	6.63	1.4	7.35	1.8	8.11	2.3	8.92	2.7	9.75	3.2	10.60
	195	0.0	4.69	0.0	4.98	0.2	5.42	0.5	5.98	0.8	6.63	1.2	7.35	1.6	8.11	2.1	8.92	2.5	9.75	3.0	10.60
	200	-0.1	4.69	0.0	4.98	0.2	5.42	0.4	5.98	0.7	6.63	1.1	7.35	1.5	8.11	1.9	8.92	2.3	9.75	2.7	10.60
	205	-0.1	4.69	-0.1	4.98	0.1	5.42	0.3	5.98	0.6	6.63	0.9	7.35	1.3	8.11	1.7	8.92	2.1	9.75	2.5	10.60
	210	-0.1	4.69	-0.1	4.98	0.0	5.42	0.2	5.98	0.5	6.63	0.8	7.35	1.1	8.11	1.5	8.92	1.9	9.75	2.2	10.60
	215	-0.1	4.69	-0.2	4.98	-0.1	5.42	0.1	5.98	0.4	6.63	0.6	7.35	1.0	8.11	1.3	8.92	1.7	9.75	2.0	10.60
	220	-0.2	4.69	-0.2	4.98	-0.1	5.42	0.0	5.98	0.2	6.63	0.5	7.35	0.8	8.11	1.1	8.92	1.5	9.75	1.8	10.60
	225	-0.2	4.69	-0.3	4.98	-0.2	5.42	-0.1	5.98	0.1	6.63	0.4	7.35	0.6	8.11	0.9	8.92	1.2	9.75	1.5	10.60
	230	-0.2	4.69	-0.3	4.98	-0.3	5.42	-0.2	5.98	0.0	6.63	0.2	7.35	0.5	8.11	0.7	8.92	1.0	9.75	1.3	10.60
	235	-0.2	4.69	-0.3	4.98	-0.4	5.42	-0.3	5.98	-0.1	6.63	0.1	7.35	0.3	8.11	0.6	8.92	0.8	9.75	1.0	10.60
	240	-0.3	4.69	-0.4	4.98	-0.4	5.42	-0.4	5.98	-0.3	6.63	-0.1	7.35	0.1	8.11	0.4	8.92	0.6	9.75	0.8	10.60
	245	-0.3	4.69	-0.4	4.98	-0.5	5.42	-0.5	5.98	-0.4	6.63	-0.2	7.35	0.0	8.11	0.2	8.92	0.4	9.75	0.6	10.60
	250	-0.3	4.69	-0.5	4.98	-0.6	5.42	-0.6	5.98	-0.5	6.63	-0.4	7.35	-0.2	8.11	0.0	8.92	0.2	9.75	0.3	10.60
255	-0.3	4.69	-0.5	4.98	-0.6	5.42	-0.7	5.98	-0.6	6.63	-0.5	7.35	-0.4	8.11	-0.2	8.92	-0.1	9.75	0.1	10.60	
36 (Gd 8)	180			0.2	4.69	0.4	4.98	0.7	5.42	1.2	5.98	1.6	6.63	2.1	7.35	2.6	8.11	3.1	8.92	3.6	9.75
	185			0.1	4.69	0.4	4.98	0.7	5.42	1.1	5.98	1.5	6.63	2.0	7.35	2.5	8.11	3.0	8.92	3.4	9.75
	190			0.1	4.69	0.3	4.98	0.6	5.42	1.0	5.98	1.4	6.63	1.8	7.35	2.3	8.11	2.8	8.92	3.2	9.75
	195			0.1	4.69	0.3	4.98	0.5	5.42	0.9	5.98	1.3	6.63	1.7	7.35	2.1	8.11	2.6	8.92	3.0	9.75
	200			0.1	4.69	0.2	4.98	0.5	5.42	0.8	5.98	1.1	6.63	1.5	7.35	2.0	8.11	2.4	8.92	2.8	9.75
	205			0.0	4.69	0.2	4.98	0.4	5.42	0.7	5.98	1.0	6.63	1.4	7.35	1.8	8.11	2.2	8.92	2.6	9.75
	210			0.0	4.69	0.1	4.98	0.3	5.42	0.6	5.98	0.9	6.63	1.3	7.35	1.6	8.11	2.0	8.92	2.4	9.75
	215			0.0	4.69	0.1	4.98	0.2	5.42	0.5	5.98	0.8	6.63	1.1	7.35	1.5	8.11	1.8	8.92	2.1	9.75
	220			0.0	4.69	0.0	4.98	0.2	5.42	0.4	5.98	0.7	6.63	1.0	7.35	1.3	8.11	1.6	8.92	1.9	9.75
	225			-0.1	4.69	0.0	4.98	0.1	5.42	0.3	5.98	0.5	6.63	0.8	7.35	1.1	8.11	1.4	8.92	1.7	9.75
	230			-0.1	4.69	-0.1	4.98	0.0	5.42	0.2	5.98	0.4	6.63	0.7	7.35	1.0	8.11	1.2	8.92	1.5	9.75
	235			-0.1	4.69	-0.1	4.98	-0.1	5.42	0.1	5.98	0.3	6.63	0.5	7.35	0.8	8.11	1.0	8.92	1.3	9.75
	240			-0.1	4.69	-0.2	4.98	-0.1	5.42	0.0	5.98	0.2	6.63	0.4	7.35	0.6	8.11	0.8	8.92	1.1	9.75
	245			-0.2	4.69	-0.2	4.98	-0.2	5.42	-0.1	5.98	0.1	6.63	0.2	7.35	0.5	8.11	0.7	8.92	0.8	9.75
	250			-0.2	4.69	-0.3	4.98	-0.3	5.42	-0.2	5.98	-0.1	6.63	0.1	7.35	0.3	8.11	0.5	8.92	0.6	9.75
255			-0.2	4.69	-0.3	4.98	-0.3	5.42	-0.3	5.98	-0.2	6.63	-0.1	7.35	0.1	8.11	0.3	8.92	0.4	9.75	

Table C.9. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
4	180				0.3	4.69	0.6	4.98	1.0	5.42	1.5	5.98	2.0	6.63	2.5	7.35	3.0	8.11	3.5	8.92	
	185				0.2	4.69	0.5	4.98	0.9	5.42	1.4	5.98	1.8	6.63	2.3	7.35	2.8	8.11	3.3	8.92	
	190				0.2	4.69	0.5	4.98	0.9	5.42	1.3	5.98	1.7	6.63	2.2	7.35	2.7	8.11	3.1	8.92	
	195				0.2	4.69	0.5	4.98	0.8	5.42	1.2	5.98	1.6	6.63	2.0	7.35	2.5	8.11	2.9	8.92	
	200				0.2	4.69	0.4	4.98	0.7	5.42	1.1	5.98	1.5	6.63	1.9	7.35	2.3	8.11	2.7	8.92	
	205				0.1	4.69	0.4	4.98	0.6	5.42	1.0	5.98	1.4	6.63	1.8	7.35	2.2	8.11	2.5	8.92	
	210				0.1	4.69	0.3	4.98	0.6	5.42	0.9	5.98	1.2	6.63	1.6	7.35	2.0	8.11	2.3	8.92	
	215				0.1	4.69	0.3	4.98	0.5	5.42	0.8	5.98	1.1	6.63	1.5	7.35	1.8	8.11	2.2	8.92	
	220				0.1	4.69	0.2	4.98	0.4	5.42	0.7	5.98	1.0	6.63	1.3	7.35	1.7	8.11	2.0	8.92	
	225				0.0	4.69	0.2	4.98	0.4	5.42	0.6	5.98	0.9	6.63	1.2	7.35	1.5	8.11	1.8	8.92	
	230				0.0	4.69	0.1	4.98	0.3	5.42	0.5	5.98	0.8	6.63	1.0	7.35	1.3	8.11	1.6	8.92	
	235				0.0	4.69	0.1	4.98	0.2	5.42	0.4	5.98	0.6	6.63	0.9	7.35	1.2	8.11	1.4	8.92	
	240				0.0	4.69	0.0	4.98	0.1	5.42	0.3	5.98	0.5	6.63	0.8	7.35	1.0	8.11	1.2	8.92	
	245				-0.1	4.69	0.0	4.98	0.1	5.42	0.2	5.98	0.4	6.63	0.6	7.35	0.8	8.11	1.0	8.92	
	250				-0.1	4.69	-0.1	4.98	0.0	5.42	0.1	5.98	0.3	6.63	0.5	7.35	0.6	8.11	0.8	8.92	
255				-0.1	4.69	-0.1	4.98	-0.1	5.42	0.0	5.98	0.2	6.63	0.3	7.35	0.5	8.11	0.6	8.92		
8	180					0.3	4.69	0.8	4.98	1.2	5.42	1.7	5.98	2.2	6.63	2.7	7.35	3.2	8.11		
	185					0.3	4.69	0.7	4.98	1.1	5.42	1.6	5.98	2.1	6.63	2.6	7.35	3.1	8.11		
	190					0.3	4.69	0.7	4.98	1.1	5.42	1.5	5.98	2.0	6.63	2.5	7.35	2.9	8.11		
	195					0.3	4.69	0.6	4.98	1.0	5.42	1.4	5.98	1.9	6.63	2.3	7.35	2.7	8.11		
	200					0.2	4.69	0.6	4.98	0.9	5.42	1.3	5.98	1.7	6.63	2.2	7.35	2.6	8.11		
	205					0.2	4.69	0.5	4.98	0.9	5.42	1.2	5.98	1.6	6.63	2.0	7.35	2.4	8.11		
	210					0.2	4.69	0.5	4.98	0.8	5.42	1.1	5.98	1.5	6.63	1.9	7.35	2.2	8.11		
	215					0.2	4.69	0.4	4.98	0.7	5.42	1.0	5.98	1.4	6.63	1.7	7.35	2.1	8.11		
	220					0.2	4.69	0.4	4.98	0.6	5.42	0.9	5.98	1.3	6.63	1.6	7.35	1.9	8.11		
	225					0.1	4.69	0.3	4.98	0.6	5.42	0.8	5.98	1.1	6.63	1.4	7.35	1.7	8.11		
	230					0.1	4.69	0.3	4.98	0.5	5.42	0.8	5.98	1.0	6.63	1.3	7.35	1.6	8.11		
	235					0.1	4.69	0.2	4.98	0.4	5.42	0.7	5.98	0.9	6.63	1.2	7.35	1.4	8.11		
	240					0.1	4.69	0.2	4.98	0.4	5.42	0.6	5.98	0.8	6.63	1.0	7.35	1.2	8.11		
	245					0.0	4.69	0.1	4.98	0.3	5.42	0.5	5.98	0.7	6.63	0.9	7.35	1.1	8.11		
	250					0.0	4.69	0.1	4.98	0.2	5.42	0.4	5.98	0.5	6.63	0.7	7.35	0.9	8.11		
255					0.0	4.69	0.0	4.98	0.1	5.42	0.3	5.98	0.4	6.63	0.6	7.35	0.7	8.11			
12	180								0.4	4.69	0.9	4.98	1.4	5.42	1.9	5.98	2.4	6.63	2.9	7.35	
	185								0.4	4.69	0.8	4.98	1.3	5.42	1.8	5.98	2.3	6.63	2.8	7.35	

Table C.9. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																
		Prior Grd		Focal Grade														
		36		4	8	12	16	20	24	28	32	36						
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	190						0.4	4.69	0.8	4.98	1.2	5.42	1.7	5.98	2.2	6.63	2.6	7.35
	195						0.3	4.69	0.7	4.98	1.2	5.42	1.6	5.98	2.0	6.63	2.5	7.35
	200						0.3	4.69	0.7	4.98	1.1	5.42	1.5	5.98	1.9	6.63	2.3	7.35
	205						0.3	4.69	0.6	4.98	1.0	5.42	1.4	5.98	1.8	6.63	2.2	7.35
	210						0.3	4.69	0.6	4.98	0.9	5.42	1.3	5.98	1.7	6.63	2.0	7.35
	215						0.2	4.69	0.5	4.98	0.9	5.42	1.2	5.98	1.6	6.63	1.9	7.35
	220						0.2	4.69	0.5	4.98	0.8	5.42	1.1	5.98	1.4	6.63	1.8	7.35
	225						0.2	4.69	0.4	4.98	0.7	5.42	1.0	5.98	1.3	6.63	1.6	7.35
	230						0.2	4.69	0.4	4.98	0.7	5.42	0.9	5.98	1.2	6.63	1.5	7.35
	235						0.1	4.69	0.3	4.98	0.6	5.42	0.8	5.98	1.1	6.63	1.3	7.35
	240						0.1	4.69	0.3	4.98	0.5	5.42	0.7	5.98	1.0	6.63	1.2	7.35
	245						0.1	4.69	0.3	4.98	0.4	5.42	0.6	5.98	0.8	6.63	1.0	7.35
	250						0.1	4.69	0.2	4.98	0.4	5.42	0.5	5.98	0.7	6.63	0.9	7.35
	255						0.1	4.69	0.2	4.98	0.3	5.42	0.4	5.98	0.6	6.63	0.8	7.35
16	180								0.5	4.69	1.0	4.98	1.5	5.42	2.0	5.98	2.5	6.63
	185								0.4	4.69	0.9	4.98	1.4	5.42	1.9	5.98	2.4	6.63
	190								0.4	4.69	0.9	4.98	1.3	5.42	1.8	5.98	2.3	6.63
	195								0.4	4.69	0.8	4.98	1.3	5.42	1.7	5.98	2.1	6.63
	200								0.4	4.69	0.8	4.98	1.2	5.42	1.6	5.98	2.0	6.63
	205								0.3	4.69	0.7	4.98	1.1	5.42	1.5	5.98	1.9	6.63
	210								0.3	4.69	0.7	4.98	1.0	5.42	1.4	5.98	1.8	6.63
	215								0.3	4.69	0.6	4.98	1.0	5.42	1.3	5.98	1.7	6.63
	220								0.3	4.69	0.6	4.98	0.9	5.42	1.2	5.98	1.5	6.63
	225								0.2	4.69	0.5	4.98	0.8	5.42	1.1	5.98	1.4	6.63
	230								0.2	4.69	0.5	4.98	0.8	5.42	1.0	5.98	1.3	6.63
	235								0.2	4.69	0.4	4.98	0.7	5.42	0.9	5.98	1.2	6.63
	240								0.2	4.69	0.4	4.98	0.6	5.42	0.8	5.98	1.1	6.63
	245								0.2	4.69	0.3	4.98	0.5	5.42	0.7	5.98	0.9	6.63
	250								0.1	4.69	0.3	4.98	0.5	5.42	0.7	5.98	0.8	6.63
	255								0.1	4.69	0.2	4.98	0.4	5.42	0.6	5.98	0.7	6.63
20	180										0.5	4.69	1.0	4.98	1.5	5.42	2.0	5.98
	185										0.5	4.69	1.0	4.98	1.5	5.42	1.9	5.98
	190										0.5	4.69	0.9	4.98	1.4	5.42	1.8	5.98
	195										0.4	4.69	0.9	4.98	1.3	5.42	1.7	5.98

Table C.9. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
200												0.4	4.69	0.8	4.98	1.2	5.42	1.7	5.98		
205												0.4	4.69	0.8	4.98	1.2	5.42	1.6	5.98		
210												0.4	4.69	0.7	4.98	1.1	5.42	1.5	5.98		
215												0.3	4.69	0.7	4.98	1.0	5.42	1.4	5.98		
220												0.3	4.69	0.6	4.98	1.0	5.42	1.3	5.98		
225												0.3	4.69	0.6	4.98	0.9	5.42	1.2	5.98		
230												0.3	4.69	0.5	4.98	0.8	5.42	1.1	5.98		
235												0.2	4.69	0.5	4.98	0.7	5.42	1.0	5.98		
240												0.2	4.69	0.4	4.98	0.7	5.42	0.9	5.98		
245												0.2	4.69	0.4	4.98	0.6	5.42	0.8	5.98		
250												0.2	4.69	0.3	4.98	0.5	5.42	0.7	5.98		
255												0.1	4.69	0.3	4.98	0.5	5.42	0.6	5.98		

Table C.10. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 9)	180	0.3	4.75	0.6	5.20	0.9	5.87	1.2	6.69	1.6	7.63	1.9	8.63	2.3	9.68	2.7	10.77	3.2	11.88	3.7	13.01
	185	0.3	4.75	0.6	5.20	0.8	5.87	1.1	6.69	1.4	7.63	1.7	8.63	2.1	9.68	2.5	10.77	2.9	11.88	3.4	13.01
	190	0.3	4.75	0.5	5.20	0.7	5.87	1.0	6.69	1.3	7.63	1.6	8.63	1.9	9.68	2.3	10.77	2.7	11.88	3.1	13.01
	195	0.2	4.75	0.4	5.20	0.7	5.87	0.9	6.69	1.1	7.63	1.4	8.63	1.7	9.68	2.0	10.77	2.4	11.88	2.8	13.01
	200	0.2	4.75	0.4	5.20	0.6	5.87	0.8	6.69	1.0	7.63	1.2	8.63	1.5	9.68	1.8	10.77	2.1	11.88	2.5	13.01
	205	0.2	4.75	0.3	5.20	0.5	5.87	0.6	6.69	0.8	7.63	1.0	8.63	1.3	9.68	1.5	10.77	1.8	11.88	2.2	13.01
	210	0.1	4.75	0.3	5.20	0.4	5.87	0.5	6.69	0.7	7.63	0.8	8.63	1.1	9.68	1.3	10.77	1.6	11.88	1.9	13.01
	215	0.1	4.75	0.2	5.20	0.3	5.87	0.4	6.69	0.5	7.63	0.7	8.63	0.8	9.68	1.0	10.77	1.3	11.88	1.6	13.01
	220	0.1	4.75	0.1	5.20	0.2	5.87	0.3	6.69	0.4	7.63	0.5	8.63	0.6	9.68	0.8	10.77	1.0	11.88	1.3	13.01
	225	0.0	4.75	0.1	5.20	0.1	5.87	0.2	6.69	0.2	7.63	0.3	8.63	0.4	9.68	0.6	10.77	0.8	11.88	1.0	13.01
	230	0.0	4.75	0.0	5.20	0.0	5.87	0.0	6.69	0.1	7.63	0.1	8.63	0.2	9.68	0.3	10.77	0.5	11.88	0.7	13.01
	235	0.0	4.75	-0.1	5.20	-0.1	5.87	-0.1	6.69	-0.1	7.63	-0.1	8.63	0.0	9.68	0.1	10.77	0.2	11.88	0.4	13.01
	240	-0.1	4.75	-0.1	5.20	-0.2	5.87	-0.2	6.69	-0.2	7.63	-0.2	8.63	-0.2	9.68	-0.2	10.77	-0.1	11.88	0.1	13.01
	245	-0.1	4.75	-0.2	5.20	-0.3	5.87	-0.3	6.69	-0.4	7.63	-0.4	8.63	-0.4	9.68	-0.4	10.77	-0.3	11.88	-0.2	13.01
250	-0.1	4.75	-0.2	5.20	-0.3	5.87	-0.5	6.69	-0.5	7.63	-0.6	8.63	-0.6	9.68	-0.6	10.77	-0.6	11.88	-0.5	13.01	
255	-0.1	4.75	-0.3	5.20	-0.4	5.87	-0.6	6.69	-0.7	7.63	-0.8	8.63	-0.9	9.68	-0.9	10.77	-0.9	11.88	-0.8	13.01	
260	-0.2	4.75	-0.4	5.20	-0.5	5.87	-0.7	6.69	-0.8	7.63	-1.0	8.63	-1.1	9.68	-1.1	10.77	-1.1	11.88	-1.1	13.01	
36 (Gd 9)	180			0.3	4.75	0.6	5.20	0.9	5.87	1.3	6.69	1.6	7.63	2.0	8.63	2.4	9.68	2.9	10.77	3.4	11.88
	185			0.3	4.75	0.6	5.20	0.8	5.87	1.1	6.69	1.5	7.63	1.8	8.63	2.2	9.68	2.6	10.77	3.1	11.88
	190			0.2	4.75	0.5	5.20	0.8	5.87	1.0	6.69	1.3	7.63	1.6	8.63	2.0	9.68	2.4	10.77	2.9	11.88
	195			0.2	4.75	0.4	5.20	0.7	5.87	0.9	6.69	1.2	7.63	1.5	8.63	1.8	9.68	2.2	10.77	2.6	11.88
	200			0.2	4.75	0.4	5.20	0.6	5.87	0.8	6.69	1.0	7.63	1.3	8.63	1.6	9.68	1.9	10.77	2.3	11.88
	205			0.2	4.75	0.3	5.20	0.5	5.87	0.7	6.69	0.9	7.63	1.1	8.63	1.4	9.68	1.7	10.77	2.0	11.88
	210			0.1	4.75	0.3	5.20	0.4	5.87	0.5	6.69	0.7	7.63	0.9	8.63	1.2	9.68	1.4	10.77	1.8	11.88
	215			0.1	4.75	0.2	5.20	0.3	5.87	0.4	6.69	0.6	7.63	0.7	8.63	1.0	9.68	1.2	10.77	1.5	11.88
	220			0.1	4.75	0.1	5.20	0.2	5.87	0.3	6.69	0.4	7.63	0.6	8.63	0.7	9.68	1.0	10.77	1.2	11.88
	225			0.0	4.75	0.1	5.20	0.1	5.87	0.2	6.69	0.3	7.63	0.4	8.63	0.5	9.68	0.7	10.77	1.0	11.88
	230			0.0	4.75	0.0	5.20	0.0	5.87	0.1	6.69	0.1	7.63	0.2	8.63	0.3	9.68	0.5	10.77	0.7	11.88
	235			0.0	4.75	-0.1	5.20	-0.1	5.87	-0.1	6.69	0.0	7.63	0.0	8.63	0.1	9.68	0.2	10.77	0.4	11.88
	240			-0.1	4.75	-0.1	5.20	-0.2	5.87	-0.2	6.69	-0.2	7.63	-0.2	8.63	-0.1	9.68	0.0	10.77	0.2	11.88
	245			-0.1	4.75	-0.2	5.20	-0.2	5.87	-0.3	6.69	-0.3	7.63	-0.3	8.63	-0.3	9.68	-0.2	10.77	-0.1	11.88
250			-0.1	4.75	-0.2	5.20	-0.3	5.87	-0.4	6.69	-0.5	7.63	-0.5	8.63	-0.5	9.68	-0.5	10.77	-0.4	11.88	

Table C.10. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	255			-0.2	4.75	-0.3	5.20	-0.4	5.87	-0.5	6.69	-0.6	7.63	-0.7	8.63	-0.7	9.68	-0.7	10.77	-0.7	11.88
	260			-0.2	4.75	-0.4	5.20	-0.5	5.87	-0.7	6.69	-0.8	7.63	-0.9	8.63	-1.0	9.68	-1.0	10.77	-0.9	11.88
4	180					0.3	4.75	0.6	5.20	1.0	5.87	1.3	6.69	1.7	7.63	2.1	8.63	2.6	9.68	3.1	10.77
	185					0.3	4.75	0.6	5.20	0.9	5.87	1.2	6.69	1.5	7.63	1.9	8.63	2.4	9.68	2.9	10.77
	190					0.3	4.75	0.5	5.20	0.8	5.87	1.1	6.69	1.4	7.63	1.8	8.63	2.2	9.68	2.6	10.77
	195					0.2	4.75	0.4	5.20	0.7	5.87	1.0	6.69	1.2	7.63	1.6	8.63	2.0	9.68	2.4	10.77
	200					0.2	4.75	0.4	5.20	0.6	5.87	0.8	6.69	1.1	7.63	1.4	8.63	1.7	9.68	2.1	10.77
	205					0.2	4.75	0.3	5.20	0.5	5.87	0.7	6.69	0.9	7.63	1.2	8.63	1.5	9.68	1.9	10.77
	210					0.1	4.75	0.3	5.20	0.4	5.87	0.6	6.69	0.8	7.63	1.0	8.63	1.3	9.68	1.6	10.77
	215					0.1	4.75	0.2	5.20	0.3	5.87	0.5	6.69	0.6	7.63	0.9	8.63	1.1	9.68	1.4	10.77
	220					0.1	4.75	0.1	5.20	0.2	5.87	0.4	6.69	0.5	7.63	0.7	8.63	0.9	9.68	1.2	10.77
	225					0.0	4.75	0.1	5.20	0.1	5.87	0.2	6.69	0.3	7.63	0.5	8.63	0.7	9.68	0.9	10.77
	230					0.0	4.75	0.0	5.20	0.1	5.87	0.1	6.69	0.2	7.63	0.3	8.63	0.5	9.68	0.7	10.77
	235					0.0	4.75	0.0	5.20	0.0	5.87	0.0	6.69	0.0	7.63	0.1	8.63	0.3	9.68	0.4	10.77
	240					-0.1	4.75	-0.1	5.20	-0.1	5.87	-0.1	6.69	-0.1	7.63	-0.1	8.63	0.1	9.68	0.2	10.77
	245					-0.1	4.75	-0.2	5.20	-0.2	5.87	-0.3	6.69	-0.3	7.63	-0.2	8.63	-0.2	9.68	0.0	10.77
250					-0.1	4.75	-0.2	5.20	-0.3	5.87	-0.4	6.69	-0.4	7.63	-0.4	8.63	-0.4	9.68	-0.3	10.77	
255					-0.1	4.75	-0.3	5.20	-0.4	5.87	-0.5	6.69	-0.6	7.63	-0.6	8.63	-0.6	9.68	-0.5	10.77	
260					-0.2	4.75	-0.3	5.20	-0.5	5.87	-0.6	6.69	-0.7	7.63	-0.8	8.63	-0.8	9.68	-0.8	10.77	
8	180					0.3	4.75	0.7	5.20	1.0	5.87	1.4	6.69	1.8	7.63	2.3	8.63	2.8	9.68		
	185					0.3	4.75	0.6	5.20	0.9	5.87	1.3	6.69	1.7	7.63	2.1	8.63	2.6	9.68		
	190					0.3	4.75	0.5	5.20	0.8	5.87	1.2	6.69	1.5	7.63	1.9	8.63	2.4	9.68		
	195					0.2	4.75	0.5	5.20	0.7	5.87	1.0	6.69	1.4	7.63	1.7	8.63	2.2	9.68		
	200					0.2	4.75	0.4	5.20	0.6	5.87	0.9	6.69	1.2	7.63	1.6	8.63	1.9	9.68		
	205					0.2	4.75	0.4	5.20	0.6	5.87	0.8	6.69	1.1	7.63	1.4	8.63	1.7	9.68		
	210					0.1	4.75	0.3	5.20	0.5	5.87	0.7	6.69	0.9	7.63	1.2	8.63	1.5	9.68		
	215					0.1	4.75	0.2	5.20	0.4	5.87	0.6	6.69	0.8	7.63	1.0	8.63	1.3	9.68		
	220					0.1	4.75	0.2	5.20	0.3	5.87	0.4	6.69	0.6	7.63	0.8	8.63	1.1	9.68		
	225					0.1	4.75	0.1	5.20	0.2	5.87	0.3	6.69	0.5	7.63	0.7	8.63	0.9	9.68		
	230					0.0	4.75	0.1	5.20	0.1	5.87	0.2	6.69	0.3	7.63	0.5	8.63	0.7	9.68		
	235					0.0	4.75	0.0	5.20	0.0	5.87	0.1	6.69	0.2	7.63	0.3	8.63	0.5	9.68		
	240					0.0	4.75	-0.1	5.20	-0.1	5.87	-0.1	6.69	0.0	7.63	0.1	8.63	0.3	9.68		
	245					-0.1	4.75	-0.1	5.20	-0.2	5.87	-0.2	6.69	-0.2	7.63	-0.1	8.63	0.1	9.68		
250					-0.1	4.75	-0.2	5.20	-0.3	5.87	-0.3	6.69	-0.3	7.63	-0.3	8.63	-0.2	9.68			

Table C.10. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4	8	12	16	20	24	28	32	36							
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	255					-0.1	4.75	-0.3	5.20	-0.4	5.87	-0.4	6.69	-0.5	7.63	-0.4	8.63	-0.4	9.68
	260					-0.2	4.75	-0.3	5.20	-0.4	5.87	-0.5	6.69	-0.6	7.63	-0.6	8.63	-0.6	9.68
12	180							0.3	4.75	0.7	5.20	1.1	5.87	1.5	6.69	2.0	7.63	2.5	8.63
	185							0.3	4.75	0.6	5.20	1.0	5.87	1.4	6.69	1.8	7.63	2.3	8.63
	190							0.3	4.75	0.6	5.20	0.9	5.87	1.3	6.69	1.7	7.63	2.1	8.63
	195							0.2	4.75	0.5	5.20	0.8	5.87	1.1	6.69	1.5	7.63	1.9	8.63
	200							0.2	4.75	0.5	5.20	0.7	5.87	1.0	6.69	1.4	7.63	1.7	8.63
	205							0.2	4.75	0.4	5.20	0.6	5.87	0.9	6.69	1.2	7.63	1.6	8.63
	210							0.2	4.75	0.3	5.20	0.5	5.87	0.8	6.69	1.1	7.63	1.4	8.63
	215							0.1	4.75	0.3	5.20	0.4	5.87	0.7	6.69	0.9	7.63	1.2	8.63
	220							0.1	4.75	0.2	5.20	0.4	5.87	0.5	6.69	0.8	7.63	1.0	8.63
	225							0.1	4.75	0.2	5.20	0.3	5.87	0.4	6.69	0.6	7.63	0.8	8.63
	230							0.0	4.75	0.1	5.20	0.2	5.87	0.3	6.69	0.5	7.63	0.7	8.63
	235							0.0	4.75	0.0	5.20	0.1	5.87	0.2	6.69	0.3	7.63	0.5	8.63
	240							0.0	4.75	0.0	5.20	0.0	5.87	0.1	6.69	0.2	7.63	0.3	8.63
	245							-0.1	4.75	-0.1	5.20	-0.1	5.87	-0.1	6.69	0.0	7.63	0.1	8.63
	250							-0.1	4.75	-0.2	5.20	-0.2	5.87	-0.2	6.69	-0.2	7.63	-0.1	8.63
	255							-0.1	4.75	-0.2	5.20	-0.3	5.87	-0.3	6.69	-0.3	7.63	-0.2	8.63
	260							-0.2	4.75	-0.3	5.20	-0.4	5.87	-0.4	6.69	-0.5	7.63	-0.4	8.63
16	180									0.4	4.75	0.7	5.20	1.2	5.87	1.6	6.69	2.1	7.63
	185									0.3	4.75	0.7	5.20	1.1	5.87	1.5	6.69	2.0	7.63
	190									0.3	4.75	0.6	5.20	1.0	5.87	1.4	6.69	1.8	7.63
	195									0.3	4.75	0.6	5.20	0.9	5.87	1.3	6.69	1.7	7.63
	200									0.2	4.75	0.5	5.20	0.8	5.87	1.1	6.69	1.5	7.63
	205									0.2	4.75	0.4	5.20	0.7	5.87	1.0	6.69	1.4	7.63
	210									0.2	4.75	0.4	5.20	0.6	5.87	0.9	6.69	1.2	7.63
	215									0.1	4.75	0.3	5.20	0.5	5.87	0.8	6.69	1.1	7.63
	220									0.1	4.75	0.3	5.20	0.4	5.87	0.7	6.69	0.9	7.63
	225									0.1	4.75	0.2	5.20	0.4	5.87	0.5	6.69	0.8	7.63
	230									0.1	4.75	0.1	5.20	0.3	5.87	0.4	6.69	0.6	7.63
	235									0.0	4.75	0.1	5.20	0.2	5.87	0.3	6.69	0.5	7.63
	240									0.0	4.75	0.0	5.20	0.1	5.87	0.2	6.69	0.3	7.63
	245									0.0	4.75	0.0	5.20	0.0	5.87	0.1	6.69	0.2	7.63
	250									-0.1	4.75	-0.1	5.20	-0.1	5.87	-0.1	6.69	0.0	7.63

Table C.10. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - READING, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	255											-0.1	4.75	-0.2	5.20	-0.2	5.87	-0.2	6.69	-0.1	7.63
	260											-0.1	4.75	-0.2	5.20	-0.3	5.87	-0.3	6.69	-0.3	7.63
20	180													0.4	4.75	0.8	5.20	1.3	5.87	1.8	6.69
	185													0.4	4.75	0.7	5.20	1.2	5.87	1.7	6.69
	190													0.3	4.75	0.7	5.20	1.1	5.87	1.5	6.69
	195													0.3	4.75	0.6	5.20	1.0	5.87	1.4	6.69
	200													0.3	4.75	0.6	5.20	0.9	5.87	1.3	6.69
	205													0.2	4.75	0.5	5.20	0.8	5.87	1.2	6.69
	210													0.2	4.75	0.4	5.20	0.7	5.87	1.1	6.69
	215													0.2	4.75	0.4	5.20	0.6	5.87	0.9	6.69
	220													0.1	4.75	0.3	5.20	0.5	5.87	0.8	6.69
	225													0.1	4.75	0.3	5.20	0.5	5.87	0.7	6.69
	230													0.1	4.75	0.2	5.20	0.4	5.87	0.6	6.69
	235													0.1	4.75	0.1	5.20	0.3	5.87	0.5	6.69
	240													0.0	4.75	0.1	5.20	0.2	5.87	0.3	6.69
	245													0.0	4.75	0.0	5.20	0.1	5.87	0.2	6.69
	250													0.0	4.75	0.0	5.20	0.0	5.87	0.1	6.69
	255													-0.1	4.75	-0.1	5.20	-0.1	5.87	0.0	6.69
	260													-0.1	4.75	-0.2	5.20	-0.2	5.87	-0.2	6.69

Table C.11. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 2

Start Inst.	Start Wk	RIT	Ending Instructional Weeks																		
			Prior Grd		Focal Grade																
			36	4	8	12	16	20	24	28	32	36									
	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
32 (Gd 1)	125	5.6	4.35	10.8	4.67	15.5	5.15	19.8	5.75	23.6	6.45	27.1	7.21	30.2	8.01	32.9	8.85	35.3	9.71	37.3	10.60
	130	5.5	4.35	10.5	4.67	15.1	5.15	19.2	5.75	23.0	6.45	26.3	7.21	29.3	8.01	31.9	8.85	34.1	9.71	36.0	10.60
	135	5.3	4.35	10.2	4.67	14.7	5.15	18.7	5.75	22.3	6.45	25.5	7.21	28.3	8.01	30.8	8.85	32.9	9.71	34.6	10.60
	140	5.2	4.35	10.0	4.67	14.3	5.15	18.1	5.75	21.6	6.45	24.7	7.21	27.4	8.01	29.7	8.85	31.7	9.71	33.3	10.60
	145	5.1	4.35	9.7	4.67	13.9	5.15	17.6	5.75	20.9	6.45	23.9	7.21	26.4	8.01	28.6	8.85	30.4	9.71	31.9	10.60
	150	4.9	4.35	9.4	4.67	13.5	5.15	17.1	5.75	20.3	6.45	23.1	7.21	25.5	8.01	27.5	8.85	29.2	9.71	30.6	10.60
	155	4.8	4.35	9.1	4.67	13.0	5.15	16.5	5.75	19.6	6.45	22.3	7.21	24.5	8.01	26.5	8.85	28.0	9.71	29.2	10.60
	160	4.7	4.35	8.9	4.67	12.6	5.15	16.0	5.75	18.9	6.45	21.4	7.21	23.6	8.01	25.4	8.85	26.8	9.71	27.9	10.60
	165	4.5	4.35	8.6	4.67	12.2	5.15	15.4	5.75	18.2	6.45	20.6	7.21	22.7	8.01	24.3	8.85	25.6	9.71	26.5	10.60
	170	4.4	4.35	8.3	4.67	11.8	5.15	14.9	5.75	17.6	6.45	19.8	7.21	21.7	8.01	23.2	8.85	24.4	9.71	25.2	10.60
	175	4.3	4.35	8.1	4.67	11.4	5.15	14.4	5.75	16.9	6.45	19.0	7.21	20.8	8.01	22.1	8.85	23.2	9.71	23.8	10.60
	180	4.1	4.35	7.8	4.67	11.0	5.15	13.8	5.75	16.2	6.45	18.2	7.21	19.8	8.01	21.1	8.85	21.9	9.71	22.5	10.60
	185	4.0	4.35	7.5	4.67	10.6	5.15	13.3	5.75	15.5	6.45	17.4	7.21	18.9	8.01	20.0	8.85	20.7	9.71	21.1	10.60
	190	3.9	4.35	7.3	4.67	10.2	5.15	12.7	5.75	14.9	6.45	16.6	7.21	17.9	8.01	18.9	8.85	19.5	9.71	19.8	10.60
	195	3.7	4.35	7.0	4.67	9.8	5.15	12.2	5.75	14.2	6.45	15.8	7.21	17.0	8.01	17.8	8.85	18.3	9.71	18.4	10.60
200	3.6	4.35	6.7	4.67	9.4	5.15	11.7	5.75	13.5	6.45	15.0	7.21	16.0	8.01	16.7	8.85	17.1	9.71	17.1	10.60	
205	3.5	4.35	6.4	4.67	9.0	5.15	11.1	5.75	12.8	6.45	14.2	7.21	15.1	8.01	15.7	8.85	15.9	9.71	15.7	10.60	
210	3.3	4.35	6.2	4.67	8.6	5.15	10.6	5.75	12.2	6.45	13.4	7.21	14.2	8.01	14.6	8.85	14.7	9.71	14.4	10.60	
36 (Gd 1)	130			5.0	4.35	9.6	4.67	13.8	5.15	17.5	5.75	20.8	6.45	23.8	7.21	26.4	8.01	28.6	8.85	30.5	9.71
	135			4.9	4.35	9.3	4.67	13.3	5.15	17.0	5.75	20.2	6.45	23.0	7.21	25.4	8.01	27.5	8.85	29.3	9.71
	140			4.8	4.35	9.1	4.67	12.9	5.15	16.4	5.75	19.5	6.45	22.2	7.21	24.5	8.01	26.5	8.85	28.1	9.71
	145			4.6	4.35	8.8	4.67	12.5	5.15	15.9	5.75	18.8	6.45	21.4	7.21	23.5	8.01	25.4	8.85	26.9	9.71
	150			4.5	4.35	8.5	4.67	12.1	5.15	15.3	5.75	18.1	6.45	20.6	7.21	22.6	8.01	24.3	8.85	25.6	9.71
	155			4.3	4.35	8.3	4.67	11.7	5.15	14.8	5.75	17.5	6.45	19.7	7.21	21.7	8.01	23.2	8.85	24.4	9.71
	160			4.2	4.35	8.0	4.67	11.3	5.15	14.3	5.75	16.8	6.45	18.9	7.21	20.7	8.01	22.1	8.85	23.2	9.71
	165			4.1	4.35	7.7	4.67	10.9	5.15	13.7	5.75	16.1	6.45	18.1	7.21	19.8	8.01	21.1	8.85	22.0	9.71
	170			3.9	4.35	7.4	4.67	10.5	5.15	13.2	5.75	15.4	6.45	17.3	7.21	18.8	8.01	20.0	8.85	20.8	9.71
	175			3.8	4.35	7.2	4.67	10.1	5.15	12.6	5.75	14.8	6.45	16.5	7.21	17.9	8.01	18.9	8.85	19.6	9.71
	180			3.7	4.35	6.9	4.67	9.7	5.15	12.1	5.75	14.1	6.45	15.7	7.21	16.9	8.01	17.8	8.85	18.4	9.71
	185			3.5	4.35	6.6	4.67	9.3	5.15	11.6	5.75	13.4	6.45	14.9	7.21	16.0	8.01	16.7	8.85	17.2	9.71
	190			3.4	4.35	6.4	4.67	8.9	5.15	11.0	5.75	12.7	6.45	14.1	7.21	15.0	8.01	15.7	8.85	15.9	9.71
	195			3.3	4.35	6.1	4.67	8.5	5.15	10.5	5.75	12.1	6.45	13.3	7.21	14.1	8.01	14.6	8.85	14.7	9.71

Table C.11. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 2

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	200			3.1	4.35	5.8	4.67	8.1	5.15	9.9	5.75	11.4	6.45	12.5	7.21	13.2	8.01	13.5	8.85	13.5	9.71
	205			3.0	4.35	5.6	4.67	7.7	5.15	9.4	5.75	10.7	6.45	11.7	7.21	12.2	8.01	12.4	8.85	12.3	9.71
	210			2.9	4.35	5.3	4.67	7.3	5.15	8.9	5.75	10.0	6.45	10.8	7.21	11.3	8.01	11.3	8.85	11.1	9.71
	215			2.7	4.35	5.0	4.67	6.9	5.15	8.3	5.75	9.4	6.45	10.0	7.21	10.3	8.01	10.3	8.85	9.9	9.71
4	135					4.4	4.35	8.5	4.67	12.1	5.15	15.3	5.75	18.1	6.45	20.6	7.21	22.7	8.01	24.4	8.85
	140					4.3	4.35	8.2	4.67	11.7	5.15	14.7	5.75	17.4	6.45	19.7	7.21	21.7	8.01	23.3	8.85
	145					4.2	4.35	7.9	4.67	11.3	5.15	14.2	5.75	16.8	6.45	18.9	7.21	20.8	8.01	22.3	8.85
	150					4.0	4.35	7.7	4.67	10.9	5.15	13.7	5.75	16.1	6.45	18.1	7.21	19.8	8.01	21.2	8.85
	155					3.9	4.35	7.4	4.67	10.5	5.15	13.1	5.75	15.4	6.45	17.3	7.21	18.9	8.01	20.1	8.85
	160					3.8	4.35	7.1	4.67	10.0	5.15	12.6	5.75	14.7	6.45	16.5	7.21	17.9	8.01	19.0	8.85
	165					3.6	4.35	6.8	4.67	9.6	5.15	12.0	5.75	14.1	6.45	15.7	7.21	17.0	8.01	17.9	8.85
	170					3.5	4.35	6.6	4.67	9.2	5.15	11.5	5.75	13.4	6.45	14.9	7.21	16.0	8.01	16.9	8.85
	175					3.4	4.35	6.3	4.67	8.8	5.15	11.0	5.75	12.7	6.45	14.1	7.21	15.1	8.01	15.8	8.85
	180					3.2	4.35	6.0	4.67	8.4	5.15	10.4	5.75	12.0	6.45	13.3	7.21	14.2	8.01	14.7	8.85
	185					3.1	4.35	5.8	4.67	8.0	5.15	9.9	5.75	11.4	6.45	12.5	7.21	13.2	8.01	13.6	8.85
	190					3.0	4.35	5.5	4.67	7.6	5.15	9.3	5.75	10.7	6.45	11.6	7.21	12.3	8.01	12.5	8.85
	195					2.8	4.35	5.2	4.67	7.2	5.15	8.8	5.75	10.0	6.45	10.8	7.21	11.3	8.01	11.5	8.85
	200					2.7	4.35	5.0	4.67	6.8	5.15	8.3	5.75	9.3	6.45	10.0	7.21	10.4	8.01	10.4	8.85
205					2.6	4.35	4.7	4.67	6.4	5.15	7.7	5.75	8.7	6.45	9.2	7.21	9.4	8.01	9.3	8.85	
210					2.4	4.35	4.4	4.67	6.0	5.15	7.2	5.75	8.0	6.45	8.4	7.21	8.5	8.01	8.2	8.85	
215					2.3	4.35	4.1	4.67	5.6	5.15	6.6	5.75	7.3	6.45	7.6	7.21	7.5	8.01	7.1	8.85	
8	140					3.9	4.35	7.4	4.67	10.4	5.15	13.1	5.75	15.4	6.45	17.4	7.21	19.0	8.01		
	145					3.8	4.35	7.1	4.67	10.0	5.15	12.6	5.75	14.8	6.45	16.6	7.21	18.1	8.01		
	150					3.6	4.35	6.8	4.67	9.6	5.15	12.0	5.75	14.1	6.45	15.8	7.21	17.1	8.01		
	155					3.5	4.35	6.5	4.67	9.2	5.15	11.5	5.75	13.4	6.45	15.0	7.21	16.2	8.01		
	160					3.3	4.35	6.3	4.67	8.8	5.15	11.0	5.75	12.7	6.45	14.2	7.21	15.2	8.01		
	165					3.2	4.35	6.0	4.67	8.4	5.15	10.4	5.75	12.1	6.45	13.4	7.21	14.3	8.01		
	170					3.1	4.35	5.7	4.67	8.0	5.15	9.9	5.75	11.4	6.45	12.5	7.21	13.4	8.01		
	175					2.9	4.35	5.5	4.67	7.6	5.15	9.3	5.75	10.7	6.45	11.7	7.21	12.4	8.01		
	180					2.8	4.35	5.2	4.67	7.2	5.15	8.8	5.75	10.0	6.45	10.9	7.21	11.5	8.01		
	185					2.7	4.35	4.9	4.67	6.8	5.15	8.3	5.75	9.4	6.45	10.1	7.21	10.5	8.01		
	190					2.5	4.35	4.7	4.67	6.4	5.15	7.7	5.75	8.7	6.45	9.3	7.21	9.6	8.01		
	195					2.4	4.35	4.4	4.67	6.0	5.15	7.2	5.75	8.0	6.45	8.5	7.21	8.6	8.01		
	200					2.3	4.35	4.1	4.67	5.6	5.15	6.6	5.75	7.3	6.45	7.7	7.21	7.7	8.01		

Table C.11. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 2

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4	8	12	16	20	24	28	32	36							
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	205					2.1	4.35	3.8	4.67	5.2	5.15	6.1	5.75	6.7	6.45	6.9	7.21	6.7	8.01
	210					2.0	4.35	3.6	4.67	4.8	5.15	5.6	5.75	6.0	6.45	6.1	7.21	5.8	8.01
	215					1.9	4.35	3.3	4.67	4.4	5.15	5.0	5.75	5.3	6.45	5.3	7.21	4.9	8.01
	220					1.7	4.35	3.0	4.67	4.0	5.15	4.5	5.75	4.6	6.45	4.4	7.21	3.9	8.01
12	140							3.5	4.35	6.5	4.67	9.2	5.15	11.6	5.75	13.5	6.45	15.1	7.21
	145							3.3	4.35	6.3	4.67	8.8	5.15	11.0	5.75	12.8	6.45	14.3	7.21
	150							3.2	4.35	6.0	4.67	8.4	5.15	10.5	5.75	12.2	6.45	13.5	7.21
	155							3.1	4.35	5.7	4.67	8.0	5.15	9.9	5.75	11.5	6.45	12.7	7.21
	160							2.9	4.35	5.5	4.67	7.6	5.15	9.4	5.75	10.8	6.45	11.9	7.21
	165							2.8	4.35	5.2	4.67	7.2	5.15	8.9	5.75	10.1	6.45	11.1	7.21
	170							2.7	4.35	4.9	4.67	6.8	5.15	8.3	5.75	9.5	6.45	10.3	7.21
	175							2.5	4.35	4.7	4.67	6.4	5.15	7.8	5.75	8.8	6.45	9.5	7.21
	180							2.4	4.35	4.4	4.67	6.0	5.15	7.2	5.75	8.1	6.45	8.7	7.21
	185							2.3	4.35	4.1	4.67	5.6	5.15	6.7	5.75	7.4	6.45	7.9	7.21
	190							2.1	4.35	3.8	4.67	5.2	5.15	6.2	5.75	6.8	6.45	7.0	7.21
	195							2.0	4.35	3.6	4.67	4.8	5.15	5.6	5.75	6.1	6.45	6.2	7.21
	200							1.9	4.35	3.3	4.67	4.4	5.15	5.1	5.75	5.4	6.45	5.4	7.21
	205							1.7	4.35	3.0	4.67	4.0	5.15	4.5	5.75	4.7	6.45	4.6	7.21
	210							1.6	4.35	2.8	4.67	3.6	5.15	4.0	5.75	4.1	6.45	3.8	7.21
	215							1.5	4.35	2.5	4.67	3.2	5.15	3.5	5.75	3.4	6.45	3.0	7.21
	220							1.3	4.35	2.2	4.67	2.8	5.15	2.9	5.75	2.7	6.45	2.2	7.21
16	145									2.9	4.35	5.5	4.67	7.7	5.15	9.5	5.75	11.0	6.45
	150									2.8	4.35	5.2	4.67	7.3	5.15	9.0	5.75	10.3	6.45
	155									2.7	4.35	5.0	4.67	6.9	5.15	8.4	5.75	9.6	6.45
	160									2.5	4.35	4.7	4.67	6.5	5.15	7.9	5.75	9.0	6.45
	165									2.4	4.35	4.4	4.67	6.1	5.15	7.4	5.75	8.3	6.45
	170									2.3	4.35	4.1	4.67	5.7	5.15	6.8	5.75	7.6	6.45
	175									2.1	4.35	3.9	4.67	5.3	5.15	6.3	5.75	6.9	6.45
	180									2.0	4.35	3.6	4.67	4.8	5.15	5.7	5.75	6.3	6.45
	185									1.9	4.35	3.3	4.67	4.4	5.15	5.2	5.75	5.6	6.45
	190									1.7	4.35	3.1	4.67	4.0	5.15	4.7	5.75	4.9	6.45
	195									1.6	4.35	2.8	4.67	3.6	5.15	4.1	5.75	4.3	6.45
	200									1.5	4.35	2.5	4.67	3.2	5.15	3.6	5.75	3.6	6.45
	205									1.3	4.35	2.3	4.67	2.8	5.15	3.0	5.75	2.9	6.45

Table C.11. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 2

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	210										1.2	4.35	2.0	4.67	2.4	5.15	2.5	5.75	2.2	6.45	
	215										1.1	4.35	1.7	4.67	2.0	5.15	2.0	5.75	1.6	6.45	
	220										0.9	4.35	1.4	4.67	1.6	5.15	1.4	5.75	0.9	6.45	
20	145												2.6	4.35	4.7	4.67	6.6	5.15	8.1	5.75	
	150												2.4	4.35	4.5	4.67	6.2	5.15	7.5	5.75	
	155												2.3	4.35	4.2	4.67	5.8	5.15	7.0	5.75	
	160												2.2	4.35	3.9	4.67	5.4	5.15	6.4	5.75	
	165												2.0	4.35	3.7	4.67	5.0	5.15	5.9	5.75	
	170												1.9	4.35	3.4	4.67	4.5	5.15	5.4	5.75	
	175												1.7	4.35	3.1	4.67	4.1	5.15	4.8	5.75	
	180												1.6	4.35	2.9	4.67	3.7	5.15	4.3	5.75	
	185												1.5	4.35	2.6	4.67	3.3	5.15	3.7	5.75	
	190												1.3	4.35	2.3	4.67	2.9	5.15	3.2	5.75	
	195												1.2	4.35	2.0	4.67	2.5	5.15	2.7	5.75	
	200												1.1	4.35	1.8	4.67	2.1	5.15	2.1	5.75	
	205												0.9	4.35	1.5	4.67	1.7	5.15	1.6	5.75	
	210												0.8	4.35	1.2	4.67	1.3	5.15	1.0	5.75	
	215												0.7	4.35	1.0	4.67	0.9	5.15	0.5	5.75	
	220												0.5	4.35	0.7	4.67	0.5	5.15	0.0	5.75	

Table C.12. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 2)	145	1.8	4.31	3.9	4.52	6.3	4.84	8.8	5.27	11.3	5.76	13.7	6.31	16.0	6.91	18.0	7.54	19.7	8.20	20.9	8.88
	150	1.7	4.31	3.8	4.52	6.0	4.84	8.4	5.27	10.8	5.76	13.1	6.31	15.3	6.91	17.2	7.54	18.8	8.20	19.9	8.88
	155	1.6	4.31	3.6	4.52	5.7	4.84	8.0	5.27	10.3	5.76	12.6	6.31	14.7	6.91	16.5	7.54	18.0	8.20	19.0	8.88
	160	1.5	4.31	3.4	4.52	5.4	4.84	7.6	5.27	9.8	5.76	12.0	6.31	14.0	6.91	15.7	7.54	17.1	8.20	18.0	8.88
	165	1.4	4.31	3.2	4.52	5.2	4.84	7.2	5.27	9.4	5.76	11.4	6.31	13.3	6.91	15.0	7.54	16.2	8.20	17.1	8.88
	170	1.3	4.31	3.0	4.52	4.9	4.84	6.9	5.27	8.9	5.76	10.9	6.31	12.7	6.91	14.2	7.54	15.4	8.20	16.1	8.88
	175	1.2	4.31	2.8	4.52	4.6	4.84	6.5	5.27	8.4	5.76	10.3	6.31	12.0	6.91	13.4	7.54	14.5	8.20	15.2	8.88
	180	1.2	4.31	2.6	4.52	4.3	4.84	6.1	5.27	7.9	5.76	9.7	6.31	11.3	6.91	12.7	7.54	13.7	8.20	14.2	8.88
	185	1.1	4.31	2.4	4.52	4.0	4.84	5.7	5.27	7.5	5.76	9.1	6.31	10.6	6.91	11.9	7.54	12.8	8.20	13.3	8.88
	190	1.0	4.31	2.2	4.52	3.7	4.84	5.3	5.27	7.0	5.76	8.6	6.31	10.0	6.91	11.1	7.54	12.0	8.20	12.3	8.88
	195	0.9	4.31	2.0	4.52	3.4	4.84	5.0	5.27	6.5	5.76	8.0	6.31	9.3	6.91	10.4	7.54	11.1	8.20	11.4	8.88
	200	0.8	4.31	1.9	4.52	3.2	4.84	4.6	5.27	6.0	5.76	7.4	6.31	8.6	6.91	9.6	7.54	10.2	8.20	10.4	8.88
	205	0.7	4.31	1.7	4.52	2.9	4.84	4.2	5.27	5.6	5.76	6.8	6.31	8.0	6.91	8.9	7.54	9.4	8.20	9.5	8.88
	210	0.6	4.31	1.5	4.52	2.6	4.84	3.8	5.27	5.1	5.76	6.3	6.31	7.3	6.91	8.1	7.54	8.5	8.20	8.5	8.88
	215	0.5	4.31	1.3	4.52	2.3	4.84	3.4	5.27	4.6	5.76	5.7	6.31	6.6	6.91	7.3	7.54	7.7	8.20	7.6	8.88
220	0.4	4.31	1.1	4.52	2.0	4.84	3.1	5.27	4.1	5.76	5.1	6.31	6.0	6.91	6.6	7.54	6.8	8.20	6.6	8.88	
225	0.3	4.31	0.9	4.52	1.7	4.84	2.7	5.27	3.6	5.76	4.6	6.31	5.3	6.91	5.8	7.54	6.0	8.20	5.6	8.88	
36 (Gd 2)	150			2.0	4.31	4.3	4.52	6.7	4.84	9.1	5.27	11.4	5.76	13.6	6.31	15.5	6.91	17.1	7.54	18.2	8.20
	155			1.9	4.31	4.1	4.52	6.4	4.84	8.7	5.27	10.9	5.76	13.0	6.31	14.9	6.91	16.3	7.54	17.4	8.20
	160			1.8	4.31	3.9	4.52	6.1	4.84	8.3	5.27	10.5	5.76	12.5	6.31	14.2	6.91	15.6	7.54	16.5	8.20
	165			1.8	4.31	3.7	4.52	5.8	4.84	7.9	5.27	10.0	5.76	11.9	6.31	13.5	6.91	14.8	7.54	15.7	8.20
	170			1.7	4.31	3.5	4.52	5.5	4.84	7.6	5.27	9.5	5.76	11.3	6.31	12.9	6.91	14.1	7.54	14.8	8.20
	175			1.6	4.31	3.3	4.52	5.2	4.84	7.2	5.27	9.0	5.76	10.7	6.31	12.2	6.91	13.3	7.54	13.9	8.20
	180			1.5	4.31	3.1	4.52	5.0	4.84	6.8	5.27	8.6	5.76	10.2	6.31	11.5	6.91	12.5	7.54	13.1	8.20
	185			1.4	4.31	3.0	4.52	4.7	4.84	6.4	5.27	8.1	5.76	9.6	6.31	10.9	6.91	11.8	7.54	12.2	8.20
	190			1.3	4.31	2.8	4.52	4.4	4.84	6.0	5.27	7.6	5.76	9.0	6.31	10.2	6.91	11.0	7.54	11.4	8.20
	195			1.2	4.31	2.6	4.52	4.1	4.84	5.6	5.27	7.1	5.76	8.5	6.31	9.5	6.91	10.2	7.54	10.5	8.20
	200			1.1	4.31	2.4	4.52	3.8	4.84	5.3	5.27	6.7	5.76	7.9	6.31	8.9	6.91	9.5	7.54	9.6	8.20
	205			1.0	4.31	2.2	4.52	3.5	4.84	4.9	5.27	6.2	5.76	7.3	6.31	8.2	6.91	8.7	7.54	8.8	8.20
	210			0.9	4.31	2.0	4.52	3.2	4.84	4.5	5.27	5.7	5.76	6.7	6.31	7.5	6.91	7.9	7.54	7.9	8.20
	215			0.8	4.31	1.8	4.52	3.0	4.84	4.1	5.27	5.2	5.76	6.2	6.31	6.9	6.91	7.2	7.54	7.1	8.20
	220			0.7	4.31	1.6	4.52	2.7	4.84	3.7	5.27	4.7	5.76	5.6	6.31	6.2	6.91	6.4	7.54	6.2	8.20

Table C.12. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36	4	8	12	16	20	24	28	32	36								
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	225	0.6	4.31	1.4	4.52	2.4	4.84	3.4	5.27	4.3	5.76	5.0	6.31	5.5	6.91	5.7	7.54	5.4	8.20
4	150			2.3	4.31	4.6	4.52	7.0	4.84	9.4	5.27	11.6	5.76	13.5	6.31	15.1	6.91	16.2	7.54
	155			2.2	4.31	4.4	4.52	6.8	4.84	9.0	5.27	11.1	5.76	12.9	6.31	14.4	6.91	15.4	7.54
	160			2.1	4.31	4.3	4.52	6.5	4.84	8.6	5.27	10.6	5.76	12.3	6.31	13.7	6.91	14.7	7.54
	165			2.0	4.31	4.1	4.52	6.2	4.84	8.2	5.27	10.1	5.76	11.8	6.31	13.1	6.91	13.9	7.54
	170			1.9	4.31	3.9	4.52	5.9	4.84	7.9	5.27	9.7	5.76	11.2	6.31	12.4	6.91	13.1	7.54
	175			1.8	4.31	3.7	4.52	5.6	4.84	7.5	5.27	9.2	5.76	10.6	6.31	11.7	6.91	12.4	7.54
	180			1.7	4.31	3.5	4.52	5.3	4.84	7.1	5.27	8.7	5.76	10.1	6.31	11.1	6.91	11.6	7.54
	185			1.6	4.31	3.3	4.52	5.0	4.84	6.7	5.27	8.2	5.76	9.5	6.31	10.4	6.91	10.9	7.54
	190			1.5	4.31	3.1	4.52	4.8	4.84	6.3	5.27	7.8	5.76	8.9	6.31	9.7	6.91	10.1	7.54
	195			1.4	4.31	2.9	4.52	4.5	4.84	6.0	5.27	7.3	5.76	8.3	6.31	9.1	6.91	9.3	7.54
	200			1.3	4.31	2.7	4.52	4.2	4.84	5.6	5.27	6.8	5.76	7.8	6.31	8.4	6.91	8.6	7.54
	205			1.2	4.31	2.5	4.52	3.9	4.84	5.2	5.27	6.3	5.76	7.2	6.31	7.7	6.91	7.8	7.54
	210			1.1	4.31	2.3	4.52	3.6	4.84	4.8	5.27	5.8	5.76	6.6	6.31	7.1	6.91	7.0	7.54
	215			1.0	4.31	2.2	4.52	3.3	4.84	4.4	5.27	5.4	5.76	6.1	6.31	6.4	6.91	6.3	7.54
220			0.9	4.31	2.0	4.52	3.0	4.84	4.0	5.27	4.9	5.76	5.5	6.31	5.7	6.91	5.5	7.54	
225			0.8	4.31	1.8	4.52	2.8	4.84	3.7	5.27	4.4	5.76	4.9	6.31	5.1	6.91	4.8	7.54	
8	155			2.3	4.31	4.6	4.52	6.8	4.84	8.9	5.27	10.8	5.76	12.2	6.31	13.3	6.91		
	160			2.2	4.31	4.4	4.52	6.6	4.84	8.6	5.27	10.3	5.76	11.7	6.31	12.6	6.91		
	165			2.1	4.31	4.2	4.52	6.3	4.84	8.2	5.27	9.8	5.76	11.1	6.31	11.9	6.91		
	170			2.0	4.31	4.0	4.52	6.0	4.84	7.8	5.27	9.3	5.76	10.5	6.31	11.3	6.91		
	175			1.9	4.31	3.8	4.52	5.7	4.84	7.4	5.27	8.9	5.76	10.0	6.31	10.6	6.91		
	180			1.8	4.31	3.6	4.52	5.4	4.84	7.0	5.27	8.4	5.76	9.4	6.31	9.9	6.91		
	185			1.7	4.31	3.5	4.52	5.1	4.84	6.6	5.27	7.9	5.76	8.8	6.31	9.3	6.91		
	190			1.6	4.31	3.3	4.52	4.8	4.84	6.3	5.27	7.4	5.76	8.2	6.31	8.6	6.91		
	195			1.5	4.31	3.1	4.52	4.6	4.84	5.9	5.27	6.9	5.76	7.7	6.31	7.9	6.91		
	200			1.4	4.31	2.9	4.52	4.3	4.84	5.5	5.27	6.5	5.76	7.1	6.31	7.3	6.91		
	205			1.3	4.31	2.7	4.52	4.0	4.84	5.1	5.27	6.0	5.76	6.5	6.31	6.6	6.91		
	210			1.2	4.31	2.5	4.52	3.7	4.84	4.7	5.27	5.5	5.76	5.9	6.31	5.9	6.91		
	215			1.1	4.31	2.3	4.52	3.4	4.84	4.4	5.27	5.0	5.76	5.4	6.31	5.3	6.91		
	220			1.0	4.31	2.1	4.52	3.1	4.84	4.0	5.27	4.6	5.76	4.8	6.31	4.6	6.91		
225			1.0	4.31	1.9	4.52	2.8	4.84	3.6	5.27	4.1	5.76	4.2	6.31	3.9	6.91			
12	155			2.3	4.31	4.6	4.52	6.7	4.84	8.5	5.27	10.0	5.76	11.0	6.31				
	160			2.2	4.31	4.4	4.52	6.4	4.84	8.1	5.27	9.5	5.76	10.4	6.31				

Table C.12. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	165									2.1	4.31	4.2	4.52	6.1	4.84	7.7	5.27	9.0	5.76	9.8	6.31
	170									2.0	4.31	4.0	4.52	5.8	4.84	7.3	5.27	8.5	5.76	9.3	6.31
	175									1.9	4.31	3.8	4.52	5.5	4.84	7.0	5.27	8.1	5.76	8.7	6.31
	180									1.8	4.31	3.6	4.52	5.2	4.84	6.6	5.27	7.6	5.76	8.1	6.31
	185									1.7	4.31	3.4	4.52	4.9	4.84	6.2	5.27	7.1	5.76	7.6	6.31
	190									1.7	4.31	3.2	4.52	4.6	4.84	5.8	5.27	6.6	5.76	7.0	6.31
	195									1.6	4.31	3.0	4.52	4.4	4.84	5.4	5.27	6.1	5.76	6.4	6.31
	200									1.5	4.31	2.8	4.52	4.1	4.84	5.0	5.27	5.7	5.76	5.8	6.31
	205									1.4	4.31	2.7	4.52	3.8	4.84	4.7	5.27	5.2	5.76	5.3	6.31
	210									1.3	4.31	2.5	4.52	3.5	4.84	4.3	5.27	4.7	5.76	4.7	6.31
	215									1.2	4.31	2.3	4.52	3.2	4.84	3.9	5.27	4.2	5.76	4.1	6.31
	220									1.1	4.31	2.1	4.52	2.9	4.84	3.5	5.27	3.8	5.76	3.6	6.31
	225									1.0	4.31	1.9	4.52	2.6	4.84	3.1	5.27	3.3	5.76	3.0	6.31
16	155											2.3	4.31	4.3	4.52	6.2	4.84	7.6	5.27	8.7	5.76
	160											2.2	4.31	4.1	4.52	5.9	4.84	7.3	5.27	8.2	5.76
	165											2.1	4.31	4.0	4.52	5.6	4.84	6.9	5.27	7.7	5.76
	170											2.0	4.31	3.8	4.52	5.3	4.84	6.5	5.27	7.2	5.76
	175											1.9	4.31	3.6	4.52	5.0	4.84	6.1	5.27	6.8	5.76
	180											1.8	4.31	3.4	4.52	4.7	4.84	5.7	5.27	6.3	5.76
	185											1.7	4.31	3.2	4.52	4.5	4.84	5.4	5.27	5.8	5.76
	190											1.6	4.31	3.0	4.52	4.2	4.84	5.0	5.27	5.3	5.76
	195											1.5	4.31	2.8	4.52	3.9	4.84	4.6	5.27	4.9	5.76
	200											1.4	4.31	2.6	4.52	3.6	4.84	4.2	5.27	4.4	5.76
	205											1.3	4.31	2.4	4.52	3.3	4.84	3.8	5.27	3.9	5.76
	210											1.2	4.31	2.2	4.52	3.0	4.84	3.5	5.27	3.4	5.76
	215											1.1	4.31	2.0	4.52	2.7	4.84	3.1	5.27	3.0	5.76
	220											1.0	4.31	1.9	4.52	2.4	4.84	2.7	5.27	2.5	5.76
	225											0.9	4.31	1.7	4.52	2.2	4.84	2.3	5.27	2.0	5.76
20	160													2.0	4.31	3.7	4.52	5.1	4.84	6.0	5.27
	165													1.9	4.31	3.5	4.52	4.8	4.84	5.7	5.27
	170													1.8	4.31	3.3	4.52	4.5	4.84	5.3	5.27
	175													1.7	4.31	3.2	4.52	4.3	4.84	4.9	5.27
	180													1.6	4.31	3.0	4.52	4.0	4.84	4.5	5.27
	185													1.5	4.31	2.8	4.52	3.7	4.84	4.1	5.27

Table C.12. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4		8		12		16		20		24		28		32	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
190												1.4	4.31	2.6	4.52	3.4	4.84	3.8	5.27
195												1.3	4.31	2.4	4.52	3.1	4.84	3.4	5.27
200												1.2	4.31	2.2	4.52	2.8	4.84	3.0	5.27
205												1.1	4.31	2.0	4.52	2.5	4.84	2.6	5.27
210												1.0	4.31	1.8	4.52	2.3	4.84	2.2	5.27
215												0.9	4.31	1.6	4.52	2.0	4.84	1.9	5.27
220												0.9	4.31	1.4	4.52	1.7	4.84	1.5	5.27
225												0.8	4.31	1.3	4.52	1.4	4.84	1.1	5.27

Table C.13. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 3)	160	1.1	4.30	2.5	4.46	4.0	4.71	5.6	5.04	7.3	5.44	8.9	5.90	10.5	6.39	11.9	6.91	13.1	7.46	14.1	8.04
	165	1.1	4.30	2.4	4.46	3.8	4.71	5.3	5.04	6.9	5.44	8.5	5.90	9.9	6.39	11.3	6.91	12.5	7.46	13.4	8.04
	170	1.0	4.30	2.2	4.46	3.6	4.71	5.0	5.04	6.5	5.44	8.0	5.90	9.4	6.39	10.7	6.91	11.8	7.46	12.6	8.04
	175	0.9	4.30	2.1	4.46	3.4	4.71	4.7	5.04	6.2	5.44	7.6	5.90	8.9	6.39	10.1	6.91	11.1	7.46	11.9	8.04
	180	0.9	4.30	1.9	4.46	3.1	4.71	4.5	5.04	5.8	5.44	7.1	5.90	8.4	6.39	9.5	6.91	10.5	7.46	11.2	8.04
	185	0.8	4.30	1.8	4.46	2.9	4.71	4.2	5.04	5.4	5.44	6.7	5.90	7.9	6.39	9.0	6.91	9.8	7.46	10.4	8.04
	190	0.7	4.30	1.6	4.46	2.7	4.71	3.9	5.04	5.1	5.44	6.3	5.90	7.4	6.39	8.4	6.91	9.2	7.46	9.7	8.04
	195	0.6	4.30	1.5	4.46	2.5	4.71	3.6	5.04	4.7	5.44	5.8	5.90	6.9	6.39	7.8	6.91	8.5	7.46	9.0	8.04
	200	0.6	4.30	1.3	4.46	2.3	4.71	3.3	5.04	4.3	5.44	5.4	5.90	6.4	6.39	7.2	6.91	7.8	7.46	8.2	8.04
	205	0.5	4.30	1.2	4.46	2.0	4.71	3.0	5.04	4.0	5.44	4.9	5.90	5.8	6.39	6.6	6.91	7.2	7.46	7.5	8.04
	210	0.4	4.30	1.0	4.46	1.8	4.71	2.7	5.04	3.6	5.44	4.5	5.90	5.3	6.39	6.0	6.91	6.5	7.46	6.8	8.04
	215	0.3	4.30	0.9	4.46	1.6	4.71	2.4	5.04	3.2	5.44	4.1	5.90	4.8	6.39	5.4	6.91	5.9	7.46	6.1	8.04
	220	0.3	4.30	0.7	4.46	1.4	4.71	2.1	5.04	2.9	5.44	3.6	5.90	4.3	6.39	4.9	6.91	5.2	7.46	5.3	8.04
	225	0.2	4.30	0.6	4.46	1.2	4.71	1.8	5.04	2.5	5.44	3.2	5.90	3.8	6.39	4.3	6.91	4.6	7.46	4.6	8.04
230	0.1	4.30	0.5	4.46	0.9	4.71	1.5	5.04	2.1	5.44	2.8	5.90	3.3	6.39	3.7	6.91	3.9	7.46	3.9	8.04	
36 (Gd 3)	160			1.4	4.30	2.9	4.46	4.5	4.71	6.1	5.04	7.8	5.44	9.3	5.90	10.7	6.39	12.0	6.91	13.0	7.46
	165			1.3	4.30	2.7	4.46	4.3	4.71	5.8	5.04	7.4	5.44	8.9	5.90	10.2	6.39	11.4	6.91	12.3	7.46
	170			1.2	4.30	2.6	4.46	4.0	4.71	5.5	5.04	7.0	5.44	8.4	5.90	9.7	6.39	10.8	6.91	11.6	7.46
	175			1.1	4.30	2.4	4.46	3.8	4.71	5.2	5.04	6.7	5.44	8.0	5.90	9.2	6.39	10.2	6.91	11.0	7.46
	180			1.1	4.30	2.3	4.46	3.6	4.71	5.0	5.04	6.3	5.44	7.6	5.90	8.7	6.39	9.6	6.91	10.3	7.46
	185			1.0	4.30	2.1	4.46	3.4	4.71	4.7	5.04	5.9	5.44	7.1	5.90	8.2	6.39	9.0	6.91	9.7	7.46
	190			0.9	4.30	2.0	4.46	3.2	4.71	4.4	5.04	5.6	5.44	6.7	5.90	7.7	6.39	8.5	6.91	9.0	7.46
	195			0.8	4.30	1.8	4.46	2.9	4.71	4.1	5.04	5.2	5.44	6.2	5.90	7.2	6.39	7.9	6.91	8.3	7.46
	200			0.8	4.30	1.7	4.46	2.7	4.71	3.8	5.04	4.8	5.44	5.8	5.90	6.6	6.39	7.3	6.91	7.7	7.46
	205			0.7	4.30	1.6	4.46	2.5	4.71	3.5	5.04	4.5	5.44	5.4	5.90	6.1	6.39	6.7	6.91	7.0	7.46
	210			0.6	4.30	1.4	4.46	2.3	4.71	3.2	5.04	4.1	5.44	4.9	5.90	5.6	6.39	6.1	6.91	6.4	7.46
	215			0.6	4.30	1.3	4.46	2.1	4.71	2.9	5.04	3.7	5.44	4.5	5.90	5.1	6.39	5.5	6.91	5.7	7.46
	220			0.5	4.30	1.1	4.46	1.8	4.71	2.6	5.04	3.4	5.44	4.0	5.90	4.6	6.39	4.9	6.91	5.1	7.46
	225			0.4	4.30	1.0	4.46	1.6	4.71	2.3	5.04	3.0	5.44	3.6	5.90	4.1	6.39	4.4	6.91	4.4	7.46
230			0.3	4.30	0.8	4.46	1.4	4.71	2.0	5.04	2.6	5.44	3.2	5.90	3.6	6.39	3.8	6.91	3.7	7.46	
4	160					1.5	4.30	3.1	4.46	4.8	4.71	6.4	5.04	8.0	5.44	9.4	5.90	10.6	6.39	11.6	6.91
	165					1.4	4.30	3.0	4.46	4.6	4.71	6.1	5.04	7.6	5.44	8.9	5.90	10.1	6.39	11.0	6.91

Table C.13. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																		
		Prior Grd		Focal Grade																
		36		4	8	12	16	20	24	28	32	36								
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	170				1.4	4.30	2.8	4.46	4.3	4.71	5.8	5.04	7.2	5.44	8.5	5.90	9.6	6.39	10.4	6.91
	175				1.3	4.30	2.7	4.46	4.1	4.71	5.5	5.04	6.9	5.44	8.1	5.90	9.1	6.39	9.8	6.91
	180				1.2	4.30	2.5	4.46	3.9	4.71	5.2	5.04	6.5	5.44	7.6	5.90	8.6	6.39	9.3	6.91
	185				1.1	4.30	2.4	4.46	3.7	4.71	4.9	5.04	6.1	5.44	7.2	5.90	8.1	6.39	8.7	6.91
	190				1.1	4.30	2.2	4.46	3.5	4.71	4.6	5.04	5.8	5.44	6.7	5.90	7.5	6.39	8.1	6.91
	195				1.0	4.30	2.1	4.46	3.2	4.71	4.4	5.04	5.4	5.44	6.3	5.90	7.0	6.39	7.5	6.91
	200				0.9	4.30	2.0	4.46	3.0	4.71	4.1	5.04	5.0	5.44	5.9	5.90	6.5	6.39	6.9	6.91
	205				0.9	4.30	1.8	4.46	2.8	4.71	3.8	5.04	4.7	5.44	5.4	5.90	6.0	6.39	6.3	6.91
	210				0.8	4.30	1.7	4.46	2.6	4.71	3.5	5.04	4.3	5.44	5.0	5.90	5.5	6.39	5.7	6.91
	215				0.7	4.30	1.5	4.46	2.4	4.71	3.2	5.04	3.9	5.44	4.6	5.90	5.0	6.39	5.2	6.91
	220				0.6	4.30	1.4	4.46	2.1	4.71	2.9	5.04	3.6	5.44	4.1	5.90	4.5	6.39	4.6	6.91
	225				0.6	4.30	1.2	4.46	1.9	4.71	2.6	5.04	3.2	5.44	3.7	5.90	4.0	6.39	4.0	6.91
	230				0.5	4.30	1.1	4.46	1.7	4.71	2.3	5.04	2.8	5.44	3.2	5.90	3.4	6.39	3.4	6.91
8	165						1.5	4.30	3.1	4.46	4.7	4.71	6.2	5.04	7.5	5.44	8.7	5.90	9.6	6.39
	170						1.5	4.30	3.0	4.46	4.5	4.71	5.9	5.04	7.1	5.44	8.2	5.90	9.1	6.39
	175						1.4	4.30	2.8	4.46	4.2	4.71	5.6	5.04	6.8	5.44	7.8	5.90	8.6	6.39
	180						1.3	4.30	2.7	4.46	4.0	4.71	5.3	5.04	6.4	5.44	7.4	5.90	8.0	6.39
	185						1.2	4.30	2.5	4.46	3.8	4.71	5.0	5.04	6.0	5.44	6.9	5.90	7.5	6.39
	190						1.2	4.30	2.4	4.46	3.6	4.71	4.7	5.04	5.7	5.44	6.5	5.90	7.0	6.39
	195						1.1	4.30	2.2	4.46	3.4	4.71	4.4	5.04	5.3	5.44	6.0	5.90	6.5	6.39
	200						1.0	4.30	2.1	4.46	3.1	4.71	4.1	5.04	4.9	5.44	5.6	5.90	6.0	6.39
	205						1.0	4.30	1.9	4.46	2.9	4.71	3.8	5.04	4.6	5.44	5.2	5.90	5.5	6.39
	210						0.9	4.30	1.8	4.46	2.7	4.71	3.5	5.04	4.2	5.44	4.7	5.90	5.0	6.39
	215						0.8	4.30	1.7	4.46	2.5	4.71	3.2	5.04	3.8	5.44	4.3	5.90	4.5	6.39
	220						0.7	4.30	1.5	4.46	2.3	4.71	2.9	5.04	3.5	5.44	3.8	5.90	3.9	6.39
	225						0.7	4.30	1.4	4.46	2.0	4.71	2.6	5.04	3.1	5.44	3.4	5.90	3.4	6.39
	230						0.6	4.30	1.2	4.46	1.8	4.71	2.4	5.04	2.8	5.44	3.0	5.90	2.9	6.39
12	165								1.6	4.30	3.1	4.46	4.6	4.71	6.0	5.04	7.1	5.44	8.0	5.90
	170								1.5	4.30	3.0	4.46	4.4	4.71	5.7	5.04	6.8	5.44	7.6	5.90
	175								1.4	4.30	2.8	4.46	4.2	4.71	5.4	5.04	6.4	5.44	7.2	5.90
	180								1.4	4.30	2.7	4.46	4.0	4.71	5.1	5.04	6.0	5.44	6.7	5.90
	185								1.3	4.30	2.6	4.46	3.7	4.71	4.8	5.04	5.7	5.44	6.3	5.90
	190								1.2	4.30	2.4	4.46	3.5	4.71	4.5	5.04	5.3	5.44	5.9	5.90
	195								1.1	4.30	2.3	4.46	3.3	4.71	4.2	5.04	4.9	5.44	5.4	5.90

Table C.13. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4	8	12	16	20	24	28	32	36							
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	200							1.1	4.30	2.1	4.46	3.1	4.71	3.9	5.04	4.6	5.44	5.0	5.90
	205							1.0	4.30	2.0	4.46	2.9	4.71	3.6	5.04	4.2	5.44	4.5	5.90
	210							0.9	4.30	1.8	4.46	2.6	4.71	3.3	5.04	3.8	5.44	4.1	5.90
	215							0.8	4.30	1.7	4.46	2.4	4.71	3.0	5.04	3.5	5.44	3.7	5.90
	220							0.8	4.30	1.5	4.46	2.2	4.71	2.8	5.04	3.1	5.44	3.2	5.90
	225							0.7	4.30	1.4	4.46	2.0	4.71	2.5	5.04	2.7	5.44	2.8	5.90
	230							0.6	4.30	1.2	4.46	1.8	4.71	2.2	5.04	2.4	5.44	2.3	5.90
16	165									1.6	4.30	3.0	4.46	4.4	4.71	5.6	5.04	6.5	5.44
	170									1.5	4.30	2.9	4.46	4.2	4.71	5.3	5.04	6.1	5.44
	175									1.4	4.30	2.8	4.46	4.0	4.71	5.0	5.04	5.7	5.44
	180									1.3	4.30	2.6	4.46	3.7	4.71	4.7	5.04	5.4	5.44
	185									1.3	4.30	2.5	4.46	3.5	4.71	4.4	5.04	5.0	5.44
	190									1.2	4.30	2.3	4.46	3.3	4.71	4.1	5.04	4.6	5.44
	195									1.1	4.30	2.2	4.46	3.1	4.71	3.8	5.04	4.3	5.44
	200									1.1	4.30	2.0	4.46	2.9	4.71	3.5	5.04	3.9	5.44
	205									1.0	4.30	1.9	4.46	2.6	4.71	3.2	5.04	3.5	5.44
	210									0.9	4.30	1.7	4.46	2.4	4.71	2.9	5.04	3.2	5.44
	215									0.8	4.30	1.6	4.46	2.2	4.71	2.6	5.04	2.8	5.44
	220									0.8	4.30	1.4	4.46	2.0	4.71	2.3	5.04	2.4	5.44
	225									0.7	4.30	1.3	4.46	1.8	4.71	2.0	5.04	2.1	5.44
230									0.6	4.30	1.1	4.46	1.5	4.71	1.8	5.04	1.7	5.44	
20	170											1.4	4.30	2.7	4.46	3.8	4.71	4.6	5.04
	175											1.3	4.30	2.5	4.46	3.6	4.71	4.3	5.04
	180											1.3	4.30	2.4	4.46	3.3	4.71	4.0	5.04
	185											1.2	4.30	2.3	4.46	3.1	4.71	3.7	5.04
	190											1.1	4.30	2.1	4.46	2.9	4.71	3.4	5.04
	195											1.0	4.30	2.0	4.46	2.7	4.71	3.2	5.04
	200											1.0	4.30	1.8	4.46	2.5	4.71	2.9	5.04
	205											0.9	4.30	1.7	4.46	2.2	4.71	2.6	5.04
	210											0.8	4.30	1.5	4.46	2.0	4.71	2.3	5.04
	215											0.8	4.30	1.4	4.46	1.8	4.71	2.0	5.04
	220											0.7	4.30	1.2	4.46	1.6	4.71	1.7	5.04
	225											0.6	4.30	1.1	4.46	1.4	4.71	1.4	5.04
	230											0.5	4.30	0.9	4.46	1.1	4.71	1.1	5.04

Table C.14. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 4)	170	1.0	4.30	2.1	4.46	3.4	4.71	4.8	5.04	6.2	5.44	7.5	5.89	8.7	6.38	9.8	6.90	10.7	7.45	11.2	8.02
	175	0.9	4.30	2.0	4.46	3.2	4.71	4.5	5.04	5.8	5.44	7.1	5.89	8.3	6.38	9.3	6.90	10.1	7.45	10.6	8.02
	180	0.8	4.30	1.9	4.46	3.0	4.71	4.3	5.04	5.5	5.44	6.7	5.89	7.8	6.38	8.8	6.90	9.5	7.45	9.9	8.02
	185	0.8	4.30	1.7	4.46	2.8	4.71	4.0	5.04	5.2	5.44	6.3	5.89	7.4	6.38	8.2	6.90	8.9	7.45	9.3	8.02
	190	0.7	4.30	1.6	4.46	2.6	4.71	3.7	5.04	4.9	5.44	5.9	5.89	6.9	6.38	7.7	6.90	8.3	7.45	8.6	8.02
	195	0.6	4.30	1.5	4.46	2.4	4.71	3.5	5.04	4.5	5.44	5.5	5.89	6.4	6.38	7.2	6.90	7.7	7.45	8.0	8.02
	200	0.6	4.30	1.3	4.46	2.2	4.71	3.2	5.04	4.2	5.44	5.1	5.89	6.0	6.38	6.7	6.90	7.1	7.45	7.3	8.02
	205	0.5	4.30	1.2	4.46	2.0	4.71	2.9	5.04	3.9	5.44	4.8	5.89	5.5	6.38	6.2	6.90	6.5	7.45	6.7	8.02
	210	0.4	4.30	1.1	4.46	1.8	4.71	2.7	5.04	3.5	5.44	4.4	5.89	5.1	6.38	5.6	6.90	6.0	7.45	6.0	8.02
	215	0.4	4.30	0.9	4.46	1.6	4.71	2.4	5.04	3.2	5.44	4.0	5.89	4.6	6.38	5.1	6.90	5.4	7.45	5.3	8.02
	220	0.3	4.30	0.8	4.46	1.4	4.71	2.2	5.04	2.9	5.44	3.6	5.89	4.2	6.38	4.6	6.90	4.8	7.45	4.7	8.02
	225	0.2	4.30	0.7	4.46	1.3	4.71	1.9	5.04	2.6	5.44	3.2	5.89	3.7	6.38	4.1	6.90	4.2	7.45	4.0	8.02
	230	0.2	4.30	0.6	4.46	1.1	4.71	1.6	5.04	2.2	5.44	2.8	5.89	3.2	6.38	3.5	6.90	3.6	7.45	3.4	8.02
	235	0.1	4.30	0.4	4.46	0.9	4.71	1.4	5.04	1.9	5.44	2.4	5.89	2.8	6.38	3.0	6.90	3.0	7.45	2.7	8.02
36 (Gd 4)	170			1.2	4.30	2.4	4.46	3.8	4.71	5.2	5.04	6.5	5.44	7.8	5.89	8.8	6.38	9.7	6.90	10.3	7.45
	175			1.1	4.30	2.3	4.46	3.6	4.71	4.9	5.04	6.2	5.44	7.4	5.89	8.4	6.38	9.2	6.90	9.7	7.45
	180			1.0	4.30	2.2	4.46	3.4	4.71	4.7	5.04	5.9	5.44	7.0	5.89	7.9	6.38	8.7	6.90	9.1	7.45
	185			1.0	4.30	2.1	4.46	3.2	4.71	4.4	5.04	5.6	5.44	6.6	5.89	7.5	6.38	8.1	6.90	8.5	7.45
	190			0.9	4.30	1.9	4.46	3.0	4.71	4.2	5.04	5.2	5.44	6.2	5.89	7.0	6.38	7.6	6.90	7.9	7.45
	195			0.8	4.30	1.8	4.46	2.8	4.71	3.9	5.04	4.9	5.44	5.8	5.89	6.6	6.38	7.1	6.90	7.3	7.45
	200			0.8	4.30	1.7	4.46	2.6	4.71	3.6	5.04	4.6	5.44	5.4	5.89	6.1	6.38	6.6	6.90	6.7	7.45
	205			0.7	4.30	1.5	4.46	2.4	4.71	3.4	5.04	4.3	5.44	5.0	5.89	5.6	6.38	6.0	6.90	6.2	7.45
	210			0.6	4.30	1.4	4.46	2.2	4.71	3.1	5.04	3.9	5.44	4.6	5.89	5.2	6.38	5.5	6.90	5.6	7.45
	215			0.6	4.30	1.3	4.46	2.1	4.71	2.8	5.04	3.6	5.44	4.2	5.89	4.7	6.38	5.0	6.90	5.0	7.45
	220			0.5	4.30	1.1	4.46	1.9	4.71	2.6	5.04	3.3	5.44	3.9	5.89	4.3	6.38	4.5	6.90	4.4	7.45
	225			0.4	4.30	1.0	4.46	1.7	4.71	2.3	5.04	2.9	5.44	3.5	5.89	3.8	6.38	4.0	6.90	3.8	7.45
	230			0.4	4.30	0.9	4.46	1.5	4.71	2.1	5.04	2.6	5.44	3.1	5.89	3.4	6.38	3.4	6.90	3.2	7.45
	235			0.3	4.30	0.8	4.46	1.3	4.71	1.8	5.04	2.3	5.44	2.7	5.89	2.9	6.38	2.9	6.90	2.6	7.45
4	170					1.3	4.30	2.7	4.46	4.0	4.71	5.4	5.04	6.6	5.44	7.7	5.89	8.5	6.38	9.1	6.90
	175					1.2	4.30	2.5	4.46	3.8	4.71	5.1	5.04	6.3	5.44	7.3	5.89	8.1	6.38	8.6	6.90
	180					1.2	4.30	2.4	4.46	3.7	4.71	4.9	5.04	6.0	5.44	6.9	5.89	7.6	6.38	8.1	6.90
	185					1.1	4.30	2.3	4.46	3.5	4.71	4.6	5.04	5.6	5.44	6.5	5.89	7.2	6.38	7.5	6.90

Table C.14. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																		
		Prior Grd		Focal Grade																
		36		4	8	12	16	20	24	28	32	36								
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	190				1.0	4.30	2.1	4.46	3.3	4.71	4.3	5.04	5.3	5.44	6.1	5.89	6.7	6.38	7.0	6.90
	195				1.0	4.30	2.0	4.46	3.1	4.71	4.1	5.04	5.0	5.44	5.7	5.89	6.3	6.38	6.5	6.90
	200				0.9	4.30	1.9	4.46	2.9	4.71	3.8	5.04	4.7	5.44	5.3	5.89	5.8	6.38	6.0	6.90
	205				0.8	4.30	1.7	4.46	2.7	4.71	3.6	5.04	4.3	5.44	5.0	5.89	5.3	6.38	5.5	6.90
	210				0.8	4.30	1.6	4.46	2.5	4.71	3.3	5.04	4.0	5.44	4.6	5.89	4.9	6.38	4.9	6.90
	215				0.7	4.30	1.5	4.46	2.3	4.71	3.0	5.04	3.7	5.44	4.2	5.89	4.4	6.38	4.4	6.90
	220				0.6	4.30	1.4	4.46	2.1	4.71	2.8	5.04	3.4	5.44	3.8	5.89	4.0	6.38	3.9	6.90
	225				0.6	4.30	1.2	4.46	1.9	4.71	2.5	5.04	3.0	5.44	3.4	5.89	3.5	6.38	3.4	6.90
	230				0.5	4.30	1.1	4.46	1.7	4.71	2.3	5.04	2.7	5.44	3.0	5.89	3.1	6.38	2.8	6.90
	235				0.4	4.30	1.0	4.46	1.5	4.71	2.0	5.04	2.4	5.44	2.6	5.89	2.6	6.38	2.3	6.90
8	170						1.4	4.30	2.8	4.46	4.1	4.71	5.3	5.04	6.4	5.44	7.3	5.89	7.8	6.38
	175						1.3	4.30	2.6	4.46	3.9	4.71	5.1	5.04	6.1	5.44	6.9	5.89	7.4	6.38
	180						1.2	4.30	2.5	4.46	3.7	4.71	4.8	5.04	5.8	5.44	6.5	5.89	6.9	6.38
	185						1.2	4.30	2.4	4.46	3.5	4.71	4.5	5.04	5.4	5.44	6.1	5.89	6.5	6.38
	190						1.1	4.30	2.2	4.46	3.3	4.71	4.3	5.04	5.1	5.44	5.7	5.89	6.0	6.38
	195						1.0	4.30	2.1	4.46	3.1	4.71	4.0	5.04	4.8	5.44	5.3	5.89	5.5	6.38
	200						1.0	4.30	2.0	4.46	2.9	4.71	3.8	5.04	4.4	5.44	4.9	5.89	5.1	6.38
	205						0.9	4.30	1.8	4.46	2.7	4.71	3.5	5.04	4.1	5.44	4.5	5.89	4.6	6.38
	210						0.8	4.30	1.7	4.46	2.5	4.71	3.2	5.04	3.8	5.44	4.1	5.89	4.2	6.38
	215						0.8	4.30	1.6	4.46	2.3	4.71	3.0	5.04	3.5	5.44	3.7	5.89	3.7	6.38
	220						0.7	4.30	1.4	4.46	2.1	4.71	2.7	5.04	3.1	5.44	3.3	5.89	3.3	6.38
	225						0.7	4.30	1.3	4.46	1.9	4.71	2.5	5.04	2.8	5.44	2.9	5.89	2.8	6.38
	230						0.6	4.30	1.2	4.46	1.7	4.71	2.2	5.04	2.5	5.44	2.6	5.89	2.3	6.38
	235						0.5	4.30	1.1	4.46	1.5	4.71	1.9	5.04	2.2	5.44	2.2	5.89	1.9	6.38
12	175								1.3	4.30	2.6	4.46	3.8	4.71	4.8	5.04	5.6	5.44	6.1	5.89
	180								1.3	4.30	2.5	4.46	3.6	4.71	4.5	5.04	5.2	5.44	5.7	5.89
	185								1.2	4.30	2.3	4.46	3.4	4.71	4.3	5.04	4.9	5.44	5.3	5.89
	190								1.1	4.30	2.2	4.46	3.2	4.71	4.0	5.04	4.6	5.44	4.9	5.89
	195								1.1	4.30	2.1	4.46	3.0	4.71	3.7	5.04	4.3	5.44	4.5	5.89
	200								1.0	4.30	1.9	4.46	2.8	4.71	3.5	5.04	3.9	5.44	4.1	5.89
	205								0.9	4.30	1.8	4.46	2.6	4.71	3.2	5.04	3.6	5.44	3.7	5.89
	210								0.9	4.30	1.7	4.46	2.4	4.71	2.9	5.04	3.3	5.44	3.3	5.89
	215								0.8	4.30	1.6	4.46	2.2	4.71	2.7	5.04	3.0	5.44	2.9	5.89
	220								0.7	4.30	1.4	4.46	2.0	4.71	2.4	5.04	2.6	5.44	2.5	5.89

Table C.14. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4		8		12		16		20		24		28		32	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	225							0.7	4.30	1.3	4.46	1.8	4.71	2.2	5.04	2.3	5.44	2.1	5.89
	230							0.6	4.30	1.2	4.46	1.6	4.71	1.9	5.04	2.0	5.44	1.8	5.89
	235							0.5	4.30	1.0	4.46	1.4	4.71	1.6	5.04	1.6	5.44	1.4	5.89
16	175									1.3	4.30	2.5	4.46	3.5	4.71	4.2	5.04	4.7	5.44
	180									1.2	4.30	2.3	4.46	3.3	4.71	4.0	5.04	4.4	5.44
	185									1.1	4.30	2.2	4.46	3.1	4.71	3.7	5.04	4.1	5.44
	190									1.1	4.30	2.1	4.46	2.9	4.71	3.5	5.04	3.8	5.44
	195									1.0	4.30	1.9	4.46	2.7	4.71	3.2	5.04	3.4	5.44
	200									1.0	4.30	1.8	4.46	2.5	4.71	2.9	5.04	3.1	5.44
	205									0.9	4.30	1.7	4.46	2.3	4.71	2.7	5.04	2.8	5.44
	210									0.8	4.30	1.5	4.46	2.1	4.71	2.4	5.04	2.5	5.44
	215									0.8	4.30	1.4	4.46	1.9	4.71	2.2	5.04	2.1	5.44
	220									0.7	4.30	1.3	4.46	1.7	4.71	1.9	5.04	1.8	5.44
	225									0.6	4.30	1.1	4.46	1.5	4.71	1.6	5.04	1.5	5.44
	230									0.6	4.30	1.0	4.46	1.3	4.71	1.4	5.04	1.2	5.44
	235									0.5	4.30	0.9	4.46	1.1	4.71	1.1	5.04	0.8	5.44
20	175											1.2	4.30	2.2	4.46	3.0	4.71	3.5	5.04
	180											1.1	4.30	2.1	4.46	2.8	4.71	3.2	5.04
	185											1.0	4.30	1.9	4.46	2.6	4.71	3.0	5.04
	190											1.0	4.30	1.8	4.46	2.4	4.71	2.7	5.04
	195											0.9	4.30	1.7	4.46	2.2	4.71	2.4	5.04
	200											0.8	4.30	1.5	4.46	2.0	4.71	2.2	5.04
	205											0.8	4.30	1.4	4.46	1.8	4.71	1.9	5.04
	210											0.7	4.30	1.3	4.46	1.6	4.71	1.6	5.04
	215											0.7	4.30	1.1	4.46	1.4	4.71	1.4	5.04
	220											0.6	4.30	1.0	4.46	1.2	4.71	1.1	5.04
	225											0.5	4.30	0.9	4.46	1.0	4.71	0.9	5.04
230											0.5	4.30	0.7	4.46	0.8	4.71	0.6	5.04	
235											0.4	4.30	0.6	4.46	0.6	4.71	0.3	5.04	

Table C.15. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 6

Start Inst.	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
Wk		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 5)	175	0.4	4.30	1.0	4.45	1.9	4.70	2.8	5.02	3.9	5.41	5.0	5.85	6.0	6.33	6.9	6.84	7.6	7.38	8.1	7.94
	180	0.3	4.30	0.9	4.45	1.7	4.70	2.6	5.02	3.6	5.41	4.7	5.85	5.6	6.33	6.5	6.84	7.2	7.38	7.6	7.94
	185	0.3	4.30	0.8	4.45	1.6	4.70	2.4	5.02	3.4	5.41	4.4	5.85	5.3	6.33	6.1	6.84	6.7	7.38	7.2	7.94
	190	0.2	4.30	0.7	4.45	1.4	4.70	2.2	5.02	3.2	5.41	4.1	5.85	4.9	6.33	5.7	6.84	6.3	7.38	6.7	7.94
	195	0.2	4.30	0.6	4.45	1.3	4.70	2.1	5.02	2.9	5.41	3.8	5.85	4.6	6.33	5.3	6.84	5.9	7.38	6.2	7.94
	200	0.1	4.30	0.5	4.45	1.1	4.70	1.9	5.02	2.7	5.41	3.5	5.85	4.2	6.33	4.9	6.84	5.4	7.38	5.7	7.94
	205	0.1	4.30	0.4	4.45	1.0	4.70	1.7	5.02	2.4	5.41	3.2	5.85	3.9	6.33	4.5	6.84	5.0	7.38	5.2	7.94
	210	0.0	4.30	0.3	4.45	0.8	4.70	1.5	5.02	2.2	5.41	2.9	5.85	3.6	6.33	4.1	6.84	4.5	7.38	4.7	7.94
	215	0.0	4.30	0.2	4.45	0.7	4.70	1.3	5.02	1.9	5.41	2.6	5.85	3.2	6.33	3.7	6.84	4.1	7.38	4.2	7.94
	220	-0.1	4.30	0.1	4.45	0.5	4.70	1.1	5.02	1.7	5.41	2.3	5.85	2.9	6.33	3.3	6.84	3.6	7.38	3.7	7.94
	225	-0.1	4.30	0.0	4.45	0.4	4.70	0.9	5.02	1.4	5.41	2.0	5.85	2.5	6.33	2.9	6.84	3.2	7.38	3.2	7.94
	230	-0.2	4.30	-0.1	4.45	0.2	4.70	0.7	5.02	1.2	5.41	1.7	5.85	2.2	6.33	2.6	6.84	2.8	7.38	2.7	7.94
	235	-0.2	4.30	-0.2	4.45	0.1	4.70	0.5	5.02	0.9	5.41	1.4	5.85	1.8	6.33	2.2	6.84	2.3	7.38	2.2	7.94
240	-0.3	4.30	-0.3	4.45	-0.1	4.70	0.3	5.02	0.7	5.41	1.1	5.85	1.5	6.33	1.8	6.84	1.9	7.38	1.7	7.94	
36 (Gd 5)	175			0.6	4.30	1.5	4.45	2.5	4.70	3.5	5.02	4.6	5.41	5.6	5.85	6.5	6.33	7.2	6.84	7.8	7.38
	180			0.6	4.30	1.4	4.45	2.3	4.70	3.3	5.02	4.3	5.41	5.3	5.85	6.2	6.33	6.8	6.84	7.3	7.38
	185			0.5	4.30	1.3	4.45	2.2	4.70	3.1	5.02	4.1	5.41	5.0	5.85	5.8	6.33	6.5	6.84	6.9	7.38
	190			0.5	4.30	1.2	4.45	2.0	4.70	2.9	5.02	3.8	5.41	4.7	5.85	5.5	6.33	6.1	6.84	6.4	7.38
	195			0.4	4.30	1.1	4.45	1.9	4.70	2.7	5.02	3.6	5.41	4.4	5.85	5.1	6.33	5.7	6.84	6.0	7.38
	200			0.4	4.30	1.0	4.45	1.7	4.70	2.5	5.02	3.3	5.41	4.1	5.85	4.8	6.33	5.3	6.84	5.5	7.38
	205			0.4	4.30	0.9	4.45	1.6	4.70	2.3	5.02	3.1	5.41	3.8	5.85	4.4	6.33	4.9	6.84	5.1	7.38
	210			0.3	4.30	0.8	4.45	1.4	4.70	2.1	5.02	2.8	5.41	3.5	5.85	4.1	6.33	4.5	6.84	4.7	7.38
	215			0.3	4.30	0.7	4.45	1.3	4.70	1.9	5.02	2.6	5.41	3.2	5.85	3.7	6.33	4.1	6.84	4.2	7.38
	220			0.2	4.30	0.6	4.45	1.1	4.70	1.7	5.02	2.4	5.41	2.9	5.85	3.4	6.33	3.7	6.84	3.8	7.38
	225			0.2	4.30	0.5	4.45	1.0	4.70	1.5	5.02	2.1	5.41	2.6	5.85	3.1	6.33	3.3	6.84	3.3	7.38
	230			0.1	4.30	0.4	4.45	0.8	4.70	1.3	5.02	1.9	5.41	2.3	5.85	2.7	6.33	2.9	6.84	2.9	7.38
	235			0.1	4.30	0.3	4.45	0.7	4.70	1.1	5.02	1.6	5.41	2.0	5.85	2.4	6.33	2.5	6.84	2.4	7.38
240			0.0	4.30	0.2	4.45	0.5	4.70	0.9	5.02	1.4	5.41	1.8	5.85	2.0	6.33	2.1	6.84	2.0	7.38	
4	175					0.8	4.30	1.8	4.45	2.9	4.70	3.9	5.02	4.9	5.41	5.9	5.85	6.6	6.33	7.1	6.84
	180					0.8	4.30	1.7	4.45	2.7	4.70	3.7	5.02	4.7	5.41	5.6	5.85	6.3	6.33	6.7	6.84
	185					0.7	4.30	1.6	4.45	2.6	4.70	3.5	5.02	4.5	5.41	5.3	5.85	5.9	6.33	6.3	6.84
	190					0.7	4.30	1.5	4.45	2.4	4.70	3.3	5.02	4.2	5.41	5.0	5.85	5.6	6.33	5.9	6.84

Table C.15. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 6

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	195			0.6	4.30	1.4	4.45	2.3	4.70	3.1	5.02	4.0	5.41	4.7	5.85	5.2	6.33	5.5	6.84		
	200			0.6	4.30	1.3	4.45	2.1	4.70	2.9	5.02	3.7	5.41	4.4	5.85	4.9	6.33	5.1	6.84		
	205			0.5	4.30	1.2	4.45	2.0	4.70	2.8	5.02	3.5	5.41	4.1	5.85	4.5	6.33	4.8	6.84		
	210			0.5	4.30	1.1	4.45	1.8	4.70	2.6	5.02	3.2	5.41	3.8	5.85	4.2	6.33	4.4	6.84		
	215			0.4	4.30	1.0	4.45	1.7	4.70	2.4	5.02	3.0	5.41	3.5	5.85	3.8	6.33	4.0	6.84		
	220			0.4	4.30	0.9	4.45	1.5	4.70	2.2	5.02	2.7	5.41	3.2	5.85	3.5	6.33	3.6	6.84		
	225			0.4	4.30	0.8	4.45	1.4	4.70	2.0	5.02	2.5	5.41	2.9	5.85	3.2	6.33	3.2	6.84		
	230			0.3	4.30	0.7	4.45	1.2	4.70	1.8	5.02	2.2	5.41	2.6	5.85	2.8	6.33	2.8	6.84		
	235			0.3	4.30	0.6	4.45	1.1	4.70	1.6	5.02	2.0	5.41	2.3	5.85	2.5	6.33	2.4	6.84		
	240			0.2	4.30	0.5	4.45	0.9	4.70	1.4	5.02	1.8	5.41	2.0	5.85	2.1	6.33	2.0	6.84		
8	175					1.0	4.30	2.0	4.45	3.1	4.70	4.1	5.02	5.0	5.41	5.8	5.85	6.3	6.33		
	180					0.9	4.30	1.9	4.45	2.9	4.70	3.9	5.02	4.8	5.41	5.5	5.85	5.9	6.33		
	185					0.9	4.30	1.8	4.45	2.8	4.70	3.7	5.02	4.5	5.41	5.2	5.85	5.6	6.33		
	190					0.8	4.30	1.7	4.45	2.7	4.70	3.5	5.02	4.3	5.41	4.9	5.85	5.2	6.33		
	195					0.8	4.30	1.6	4.45	2.5	4.70	3.3	5.02	4.0	5.41	4.6	5.85	4.9	6.33		
	200					0.7	4.30	1.5	4.45	2.4	4.70	3.1	5.02	3.8	5.41	4.3	5.85	4.6	6.33		
	205					0.7	4.30	1.4	4.45	2.2	4.70	2.9	5.02	3.5	5.41	4.0	5.85	4.2	6.33		
	210					0.6	4.30	1.3	4.45	2.1	4.70	2.7	5.02	3.3	5.41	3.7	5.85	3.9	6.33		
	215					0.6	4.30	1.2	4.45	1.9	4.70	2.5	5.02	3.1	5.41	3.4	5.85	3.5	6.33		
	220					0.5	4.30	1.1	4.45	1.8	4.70	2.3	5.02	2.8	5.41	3.1	5.85	3.2	6.33		
	225					0.5	4.30	1.0	4.45	1.6	4.70	2.1	5.02	2.6	5.41	2.8	5.85	2.8	6.33		
	230					0.4	4.30	0.9	4.45	1.5	4.70	1.9	5.02	2.3	5.41	2.5	5.85	2.5	6.33		
	235					0.4	4.30	0.8	4.45	1.3	4.70	1.8	5.02	2.1	5.41	2.2	5.85	2.1	6.33		
	240					0.3	4.30	0.8	4.45	1.2	4.70	1.6	5.02	1.8	5.41	1.9	5.85	1.8	6.33		
12	175							1.1	4.30	2.1	4.45	3.1	4.70	4.0	5.02	4.8	5.41	5.3	5.85		
	180							1.0	4.30	2.0	4.45	3.0	4.70	3.9	5.02	4.5	5.41	5.0	5.85		
	185							1.0	4.30	1.9	4.45	2.8	4.70	3.7	5.02	4.3	5.41	4.7	5.85		
	190							0.9	4.30	1.8	4.45	2.7	4.70	3.5	5.02	4.1	5.41	4.4	5.85		
	195							0.9	4.30	1.7	4.45	2.5	4.70	3.3	5.02	3.8	5.41	4.1	5.85		
	200							0.8	4.30	1.6	4.45	2.4	4.70	3.1	5.02	3.6	5.41	3.8	5.85		
	205							0.8	4.30	1.5	4.45	2.3	4.70	2.9	5.02	3.3	5.41	3.5	5.85		
	210							0.7	4.30	1.4	4.45	2.1	4.70	2.7	5.02	3.1	5.41	3.2	5.85		
	215							0.7	4.30	1.3	4.45	2.0	4.70	2.5	5.02	2.8	5.41	2.9	5.85		
	220							0.6	4.30	1.2	4.45	1.8	4.70	2.3	5.02	2.6	5.41	2.6	5.85		

Table C.15. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 6

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	225									0.6	4.30	1.1	4.45	1.7	4.70	2.1	5.02	2.3	5.41	2.4	5.85
	230									0.5	4.30	1.0	4.45	1.5	4.70	1.9	5.02	2.1	5.41	2.1	5.85
	235									0.5	4.30	0.9	4.45	1.4	4.70	1.7	5.02	1.8	5.41	1.8	5.85
	240									0.4	4.30	0.8	4.45	1.2	4.70	1.5	5.02	1.6	5.41	1.5	5.85
16	180											1.0	4.30	2.0	4.45	2.9	4.70	3.5	5.02	4.0	5.41
	185											1.0	4.30	1.9	4.45	2.7	4.70	3.3	5.02	3.8	5.41
	190											0.9	4.30	1.8	4.45	2.6	4.70	3.2	5.02	3.5	5.41
	195											0.9	4.30	1.7	4.45	2.4	4.70	3.0	5.02	3.3	5.41
	200											0.8	4.30	1.6	4.45	2.3	4.70	2.8	5.02	3.0	5.41
	205											0.8	4.30	1.5	4.45	2.1	4.70	2.6	5.02	2.8	5.41
	210											0.7	4.30	1.4	4.45	2.0	4.70	2.4	5.02	2.5	5.41
	215											0.7	4.30	1.3	4.45	1.8	4.70	2.2	5.02	2.3	5.41
	220											0.6	4.30	1.2	4.45	1.7	4.70	2.0	5.02	2.0	5.41
	225											0.6	4.30	1.1	4.45	1.5	4.70	1.8	5.02	1.8	5.41
	230											0.5	4.30	1.0	4.45	1.4	4.70	1.6	5.02	1.5	5.41
	235											0.5	4.30	0.9	4.45	1.2	4.70	1.4	5.02	1.3	5.41
	240											0.4	4.30	0.8	4.45	1.1	4.70	1.2	5.02	1.1	5.41
20	180													1.0	4.30	1.8	4.45	2.5	4.70	3.0	5.02
	185													0.9	4.30	1.7	4.45	2.4	4.70	2.8	5.02
	190													0.9	4.30	1.6	4.45	2.2	4.70	2.6	5.02
	195													0.8	4.30	1.5	4.45	2.1	4.70	2.4	5.02
	200													0.8	4.30	1.4	4.45	1.9	4.70	2.2	5.02
	205													0.7	4.30	1.3	4.45	1.8	4.70	2.0	5.02
	210													0.7	4.30	1.2	4.45	1.6	4.70	1.8	5.02
	215													0.6	4.30	1.1	4.45	1.5	4.70	1.6	5.02
	220													0.6	4.30	1.0	4.45	1.3	4.70	1.4	5.02
	225													0.5	4.30	1.0	4.45	1.2	4.70	1.2	5.02
	230													0.5	4.30	0.9	4.45	1.1	4.70	1.0	5.02
	235													0.4	4.30	0.8	4.45	0.9	4.70	0.8	5.02
	240													0.4	4.30	0.7	4.45	0.8	4.70	0.6	5.02

Table C.16. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 7

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 6)	180	0.2	4.29	0.6	4.43	1.1	4.65	1.8	4.95	2.5	5.31	3.3	5.71	4.0	6.16	4.8	6.63	5.4	7.13	5.9	7.66
	185	0.2	4.29	0.5	4.43	1.0	4.65	1.7	4.95	2.4	5.31	3.1	5.71	3.8	6.16	4.5	6.63	5.1	7.13	5.5	7.66
	190	0.1	4.29	0.5	4.43	0.9	4.65	1.5	4.95	2.2	5.31	2.9	5.71	3.6	6.16	4.2	6.63	4.8	7.13	5.2	7.66
	195	0.1	4.29	0.4	4.43	0.8	4.65	1.4	4.95	2.0	5.31	2.7	5.71	3.3	6.16	3.9	6.63	4.5	7.13	4.9	7.66
	200	0.1	4.29	0.3	4.43	0.7	4.65	1.3	4.95	1.9	5.31	2.5	5.71	3.1	6.16	3.7	6.63	4.2	7.13	4.5	7.66
	205	0.0	4.29	0.3	4.43	0.6	4.65	1.1	4.95	1.7	5.31	2.3	5.71	2.9	6.16	3.4	6.63	3.9	7.13	4.2	7.66
	210	0.0	4.29	0.2	4.43	0.5	4.65	1.0	4.95	1.5	5.31	2.1	5.71	2.6	6.16	3.1	6.63	3.6	7.13	3.8	7.66
	215	0.0	4.29	0.1	4.43	0.4	4.65	0.9	4.95	1.4	5.31	1.9	5.71	2.4	6.16	2.9	6.63	3.3	7.13	3.5	7.66
	220	-0.1	4.29	0.1	4.43	0.3	4.65	0.7	4.95	1.2	5.31	1.7	5.71	2.2	6.16	2.6	6.63	3.0	7.13	3.2	7.66
	225	-0.1	4.29	0.0	4.43	0.2	4.65	0.6	4.95	1.0	5.31	1.5	5.71	1.9	6.16	2.3	6.63	2.6	7.13	2.8	7.66
	230	-0.1	4.29	-0.1	4.43	0.1	4.65	0.5	4.95	0.8	5.31	1.3	5.71	1.7	6.16	2.1	6.63	2.3	7.13	2.5	7.66
	235	-0.2	4.29	-0.2	4.43	0.0	4.65	0.3	4.95	0.7	5.31	1.1	5.71	1.5	6.16	1.8	6.63	2.0	7.13	2.2	7.66
	240	-0.2	4.29	-0.2	4.43	-0.1	4.65	0.2	4.95	0.5	5.31	0.9	5.71	1.2	6.16	1.5	6.63	1.7	7.13	1.8	7.66
245	-0.2	4.29	-0.3	4.43	-0.2	4.65	0.0	4.95	0.3	5.31	0.7	5.71	1.0	6.16	1.3	6.63	1.4	7.13	1.5	7.66	
36 (Gd 6)	180			0.4	4.29	0.9	4.43	1.6	4.65	2.3	4.95	3.1	5.31	3.8	5.71	4.6	6.16	5.2	6.63	5.7	7.13
	185			0.4	4.29	0.9	4.43	1.5	4.65	2.2	4.95	2.9	5.31	3.6	5.71	4.3	6.16	4.9	6.63	5.4	7.13
	190			0.3	4.29	0.8	4.43	1.4	4.65	2.1	4.95	2.8	5.31	3.4	5.71	4.1	6.16	4.6	6.63	5.1	7.13
	195			0.3	4.29	0.7	4.43	1.3	4.65	1.9	4.95	2.6	5.31	3.2	5.71	3.8	6.16	4.4	6.63	4.8	7.13
	200			0.3	4.29	0.7	4.43	1.2	4.65	1.8	4.95	2.4	5.31	3.0	5.71	3.6	6.16	4.1	6.63	4.5	7.13
	205			0.2	4.29	0.6	4.43	1.1	4.65	1.7	4.95	2.3	5.31	2.8	5.71	3.4	6.16	3.8	6.63	4.2	7.13
	210			0.2	4.29	0.5	4.43	1.0	4.65	1.5	4.95	2.1	5.31	2.6	5.71	3.1	6.16	3.6	6.63	3.8	7.13
	215			0.2	4.29	0.5	4.43	0.9	4.65	1.4	4.95	1.9	5.31	2.4	5.71	2.9	6.16	3.3	6.63	3.5	7.13
	220			0.1	4.29	0.4	4.43	0.8	4.65	1.3	4.95	1.7	5.31	2.2	5.71	2.7	6.16	3.0	6.63	3.2	7.13
	225			0.1	4.29	0.3	4.43	0.7	4.65	1.1	4.95	1.6	5.31	2.0	5.71	2.4	6.16	2.8	6.63	2.9	7.13
	230			0.1	4.29	0.3	4.43	0.6	4.65	1.0	4.95	1.4	5.31	1.8	5.71	2.2	6.16	2.5	6.63	2.6	7.13
235			0.0	4.29	0.2	4.43	0.5	4.65	0.9	4.95	1.2	5.31	1.6	5.71	2.0	6.16	2.2	6.63	2.3	7.13	
240			0.0	4.29	0.1	4.43	0.4	4.65	0.7	4.95	1.1	5.31	1.4	5.71	1.7	6.16	1.9	6.63	2.0	7.13	
245			-0.1	4.29	0.1	4.43	0.3	4.65	0.6	4.95	0.9	5.31	1.2	5.71	1.5	6.16	1.7	6.63	1.7	7.13	
4	180					0.5	4.29	1.2	4.43	1.9	4.65	2.7	4.95	3.5	5.31	4.2	5.71	4.8	6.16	5.3	6.63
	185					0.5	4.29	1.1	4.43	1.8	4.65	2.6	4.95	3.3	5.31	4.0	5.71	4.5	6.16	5.0	6.63
	190					0.5	4.29	1.1	4.43	1.7	4.65	2.4	4.95	3.1	5.31	3.8	5.71	4.3	6.16	4.7	6.63
	195					0.4	4.29	1.0	4.43	1.6	4.65	2.3	4.95	3.0	5.31	3.6	5.71	4.1	6.16	4.5	6.63

Table C.16. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 7

Start Inst. Wk	Start RIT	Ending Instructional Weeks																		
		Prior Grd		Focal Grade																
		36		4	8	12	16	20	24	28	32	36								
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	200				0.4	4.29	0.9	4.43	1.5	4.65	2.2	4.95	2.8	5.31	3.4	5.71	3.8	6.16	4.2	6.63
	205				0.4	4.29	0.9	4.43	1.4	4.65	2.0	4.95	2.6	5.31	3.2	5.71	3.6	6.16	3.9	6.63
	210				0.3	4.29	0.8	4.43	1.3	4.65	1.9	4.95	2.4	5.31	3.0	5.71	3.4	6.16	3.7	6.63
	215				0.3	4.29	0.7	4.43	1.2	4.65	1.8	4.95	2.3	5.31	2.8	5.71	3.1	6.16	3.4	6.63
	220				0.3	4.29	0.7	4.43	1.1	4.65	1.6	4.95	2.1	5.31	2.5	5.71	2.9	6.16	3.1	6.63
	225				0.2	4.29	0.6	4.43	1.0	4.65	1.5	4.95	1.9	5.31	2.3	5.71	2.7	6.16	2.9	6.63
	230				0.2	4.29	0.5	4.43	0.9	4.65	1.4	4.95	1.8	5.31	2.1	5.71	2.4	6.16	2.6	6.63
	235				0.2	4.29	0.5	4.43	0.8	4.65	1.2	4.95	1.6	5.31	1.9	5.71	2.2	6.16	2.3	6.63
	240				0.1	4.29	0.4	4.43	0.7	4.65	1.1	4.95	1.4	5.31	1.7	5.71	2.0	6.16	2.0	6.63
	245				0.1	4.29	0.3	4.43	0.6	4.65	1.0	4.95	1.3	5.31	1.5	5.71	1.7	6.16	1.8	6.63
8	180						0.7	4.29	1.4	4.43	2.2	4.65	2.9	4.95	3.6	5.31	4.2	5.71	4.7	6.16
	185						0.6	4.29	1.3	4.43	2.1	4.65	2.8	4.95	3.4	5.31	4.0	5.71	4.5	6.16
	190						0.6	4.29	1.3	4.43	2.0	4.65	2.6	4.95	3.3	5.31	3.8	5.71	4.3	6.16
	195						0.6	4.29	1.2	4.43	1.9	4.65	2.5	4.95	3.1	5.31	3.6	5.71	4.0	6.16
	200						0.5	4.29	1.1	4.43	1.8	4.65	2.4	4.95	2.9	5.31	3.4	5.71	3.8	6.16
	205						0.5	4.29	1.1	4.43	1.7	4.65	2.2	4.95	2.8	5.31	3.2	5.71	3.6	6.16
	210						0.5	4.29	1.0	4.43	1.6	4.65	2.1	4.95	2.6	5.31	3.0	5.71	3.3	6.16
	215						0.4	4.29	0.9	4.43	1.5	4.65	2.0	4.95	2.4	5.31	2.8	5.71	3.1	6.16
	220						0.4	4.29	0.9	4.43	1.3	4.65	1.8	4.95	2.3	5.31	2.6	5.71	2.8	6.16
	225						0.4	4.29	0.8	4.43	1.2	4.65	1.7	4.95	2.1	5.31	2.4	5.71	2.6	6.16
	230						0.3	4.29	0.7	4.43	1.1	4.65	1.6	4.95	1.9	5.31	2.2	5.71	2.4	6.16
	235						0.3	4.29	0.7	4.43	1.0	4.65	1.4	4.95	1.8	5.31	2.0	5.71	2.1	6.16
	240						0.3	4.29	0.6	4.43	0.9	4.65	1.3	4.95	1.6	5.31	1.8	5.71	1.9	6.16
	245						0.2	4.29	0.5	4.43	0.8	4.65	1.2	4.95	1.4	5.31	1.6	5.71	1.7	6.16
12	180								0.7	4.29	1.5	4.43	2.3	4.65	3.0	4.95	3.6	5.31	4.1	5.71
	185								0.7	4.29	1.4	4.43	2.2	4.65	2.8	4.95	3.4	5.31	3.9	5.71
	190								0.7	4.29	1.4	4.43	2.1	4.65	2.7	4.95	3.2	5.31	3.7	5.71
	195								0.6	4.29	1.3	4.43	2.0	4.65	2.6	4.95	3.1	5.31	3.5	5.71
	200								0.6	4.29	1.2	4.43	1.8	4.65	2.4	4.95	2.9	5.31	3.3	5.71
	205								0.6	4.29	1.2	4.43	1.7	4.65	2.3	4.95	2.7	5.31	3.1	5.71
	210								0.5	4.29	1.1	4.43	1.6	4.65	2.2	4.95	2.6	5.31	2.9	5.71
	215								0.5	4.29	1.0	4.43	1.5	4.65	2.0	4.95	2.4	5.31	2.7	5.71
	220								0.5	4.29	1.0	4.43	1.4	4.65	1.9	4.95	2.2	5.31	2.5	5.71
	225								0.4	4.29	0.9	4.43	1.3	4.65	1.8	4.95	2.1	5.31	2.3	5.71

Table C.16. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 7

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4	8	12	16	20	24	28	32	36							
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	230					0.4	4.29	0.8	4.43	1.2	4.65	1.6	4.95	1.9	5.31	2.1	5.71		
	235					0.4	4.29	0.8	4.43	1.1	4.65	1.5	4.95	1.7	5.31	1.9	5.71		
	240					0.3	4.29	0.7	4.43	1.0	4.65	1.3	4.95	1.6	5.31	1.7	5.71		
	245					0.3	4.29	0.6	4.43	0.9	4.65	1.2	4.95	1.4	5.31	1.4	5.71		
16	180							0.8	4.29	1.5	4.43	2.2	4.65	2.8	4.95	3.3	5.31		
	185							0.7	4.29	1.5	4.43	2.1	4.65	2.7	4.95	3.2	5.31		
	190							0.7	4.29	1.4	4.43	2.0	4.65	2.6	4.95	3.0	5.31		
	195							0.7	4.29	1.3	4.43	1.9	4.65	2.4	4.95	2.8	5.31		
	200							0.6	4.29	1.3	4.43	1.8	4.65	2.3	4.95	2.7	5.31		
	205							0.6	4.29	1.2	4.43	1.7	4.65	2.2	4.95	2.5	5.31		
	210							0.6	4.29	1.1	4.43	1.6	4.65	2.0	4.95	2.3	5.31		
	215							0.5	4.29	1.1	4.43	1.5	4.65	1.9	4.95	2.2	5.31		
	220							0.5	4.29	1.0	4.43	1.4	4.65	1.8	4.95	2.0	5.31		
	225							0.5	4.29	0.9	4.43	1.3	4.65	1.6	4.95	1.8	5.31		
	230							0.4	4.29	0.9	4.43	1.2	4.65	1.5	4.95	1.7	5.31		
	235							0.4	4.29	0.8	4.43	1.1	4.65	1.4	4.95	1.5	5.31		
	240							0.4	4.29	0.7	4.43	1.0	4.65	1.2	4.95	1.3	5.31		
	245							0.3	4.29	0.6	4.43	0.9	4.65	1.1	4.95	1.2	5.31		
20	180									0.8	4.29	1.5	4.43	2.1	4.65	2.6	4.95		
	185									0.7	4.29	1.4	4.43	2.0	4.65	2.4	4.95		
	190									0.7	4.29	1.3	4.43	1.9	4.65	2.3	4.95		
	195									0.7	4.29	1.3	4.43	1.8	4.65	2.2	4.95		
	200									0.6	4.29	1.2	4.43	1.7	4.65	2.0	4.95		
	205									0.6	4.29	1.1	4.43	1.6	4.65	1.9	4.95		
	210									0.6	4.29	1.1	4.43	1.5	4.65	1.8	4.95		
	215									0.5	4.29	1.0	4.43	1.4	4.65	1.6	4.95		
	220									0.5	4.29	0.9	4.43	1.3	4.65	1.5	4.95		
	225									0.5	4.29	0.9	4.43	1.2	4.65	1.4	4.95		
	230									0.4	4.29	0.8	4.43	1.1	4.65	1.2	4.95		
	235									0.4	4.29	0.7	4.43	1.0	4.65	1.1	4.95		
	240									0.4	4.29	0.7	4.43	0.9	4.65	1.0	4.95		
	245									0.3	4.29	0.6	4.43	0.8	4.65	0.8	4.95		

Table C.17. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 7)	180	0.5	4.30	1.1	4.47	1.8	4.73	2.6	5.08	3.4	5.49	4.2	5.96	4.9	6.46	5.6	7.00	6.2	7.57	6.6	8.16
	185	0.4	4.30	1.0	4.47	1.6	4.73	2.4	5.08	3.2	5.49	3.9	5.96	4.6	6.46	5.3	7.00	5.8	7.57	6.1	8.16
	190	0.4	4.30	0.9	4.47	1.5	4.73	2.2	5.08	2.9	5.49	3.7	5.96	4.3	6.46	4.9	7.00	5.4	7.57	5.7	8.16
	195	0.3	4.30	0.8	4.47	1.4	4.73	2.0	5.08	2.7	5.49	3.4	5.96	4.0	6.46	4.6	7.00	5.0	7.57	5.3	8.16
	200	0.3	4.30	0.7	4.47	1.2	4.73	1.9	5.08	2.5	5.49	3.1	5.96	3.7	6.46	4.2	7.00	4.6	7.57	4.8	8.16
	205	0.2	4.30	0.6	4.47	1.1	4.73	1.7	5.08	2.3	5.49	2.9	5.96	3.4	6.46	3.9	7.00	4.2	7.57	4.4	8.16
	210	0.2	4.30	0.5	4.47	1.0	4.73	1.5	5.08	2.1	5.49	2.6	5.96	3.1	6.46	3.5	7.00	3.8	7.57	3.9	8.16
	215	0.2	4.30	0.4	4.47	0.9	4.73	1.3	5.08	1.8	5.49	2.3	5.96	2.8	6.46	3.2	7.00	3.4	7.57	3.5	8.16
	220	0.1	4.30	0.4	4.47	0.7	4.73	1.2	5.08	1.6	5.49	2.1	5.96	2.5	6.46	2.8	7.00	3.0	7.57	3.1	8.16
	225	0.1	4.30	0.3	4.47	0.6	4.73	1.0	5.08	1.4	5.49	1.8	5.96	2.2	6.46	2.5	7.00	2.6	7.57	2.6	8.16
	230	0.0	4.30	0.2	4.47	0.5	4.73	0.8	5.08	1.2	5.49	1.6	5.96	1.9	6.46	2.1	7.00	2.2	7.57	2.2	8.16
	235	0.0	4.30	0.1	4.47	0.3	4.73	0.6	5.08	1.0	5.49	1.3	5.96	1.6	6.46	1.8	7.00	1.8	7.57	1.8	8.16
	240	-0.1	4.30	0.0	4.47	0.2	4.73	0.5	5.08	0.7	5.49	1.0	5.96	1.3	6.46	1.4	7.00	1.4	7.57	1.3	8.16
	245	-0.1	4.30	-0.1	4.47	0.1	4.73	0.3	5.08	0.5	5.49	0.8	5.96	1.0	6.46	1.1	7.00	1.0	7.57	0.9	8.16
250	-0.2	4.30	-0.2	4.47	-0.1	4.73	0.1	5.08	0.3	5.49	0.5	5.96	0.6	6.46	0.7	7.00	0.7	7.57	0.4	8.16	
36 (Gd 7)	180			0.6	4.30	1.3	4.47	2.1	4.73	2.9	5.08	3.7	5.49	4.5	5.96	5.2	6.46	5.7	7.00	6.1	7.57
	185			0.6	4.30	1.2	4.47	2.0	4.73	2.7	5.08	3.5	5.49	4.2	5.96	4.9	6.46	5.4	7.00	5.7	7.57
	190			0.5	4.30	1.1	4.47	1.8	4.73	2.6	5.08	3.3	5.49	4.0	5.96	4.6	6.46	5.0	7.00	5.3	7.57
	195			0.5	4.30	1.1	4.47	1.7	4.73	2.4	5.08	3.1	5.49	3.7	5.96	4.3	6.46	4.7	7.00	4.9	7.57
	200			0.4	4.30	1.0	4.47	1.6	4.73	2.2	5.08	2.9	5.49	3.4	5.96	3.9	6.46	4.3	7.00	4.5	7.57
	205			0.4	4.30	0.9	4.47	1.4	4.73	2.0	5.08	2.6	5.49	3.2	5.96	3.6	6.46	4.0	7.00	4.1	7.57
	210			0.3	4.30	0.8	4.47	1.3	4.73	1.9	5.08	2.4	5.49	2.9	5.96	3.3	6.46	3.6	7.00	3.8	7.57
	215			0.3	4.30	0.7	4.47	1.2	4.73	1.7	5.08	2.2	5.49	2.7	5.96	3.0	6.46	3.3	7.00	3.4	7.57
	220			0.3	4.30	0.6	4.47	1.1	4.73	1.5	5.08	2.0	5.49	2.4	5.96	2.7	6.46	2.9	7.00	3.0	7.57
	225			0.2	4.30	0.5	4.47	0.9	4.73	1.3	5.08	1.8	5.49	2.1	5.96	2.4	6.46	2.6	7.00	2.6	7.57
	230			0.2	4.30	0.4	4.47	0.8	4.73	1.2	5.08	1.5	5.49	1.9	5.96	2.1	6.46	2.2	7.00	2.2	7.57
	235			0.1	4.30	0.4	4.47	0.7	4.73	1.0	5.08	1.3	5.49	1.6	5.96	1.8	6.46	1.9	7.00	1.8	7.57
	240			0.1	4.30	0.3	4.47	0.5	4.73	0.8	5.08	1.1	5.49	1.3	5.96	1.5	6.46	1.5	7.00	1.4	7.57
	245			0.0	4.30	0.2	4.47	0.4	4.73	0.6	5.08	0.9	5.49	1.1	5.96	1.2	6.46	1.2	7.00	1.0	7.57
250			0.0	4.30	0.1	4.47	0.3	4.73	0.5	5.08	0.7	5.49	0.8	5.96	0.9	6.46	0.8	7.00	0.6	7.57	
4	180					0.7	4.30	1.5	4.47	2.3	4.73	3.1	5.08	3.9	5.49	4.6	5.96	5.1	6.46	5.5	7.00
	185					0.7	4.30	1.4	4.47	2.2	4.73	3.0	5.08	3.7	5.49	4.3	5.96	4.8	6.46	5.2	7.00

Table C.17. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																				
		Prior Grd		Focal Grade																		
		36		4	8	12	16	20	24	28	32	36										
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	190				0.6	4.30	1.3	4.47	2.1	4.73	2.8	5.08	3.5	5.49	4.0	5.96	4.5	6.46	4.8	7.00		
	195				0.6	4.30	1.2	4.47	1.9	4.73	2.6	5.08	3.2	5.49	3.8	5.96	4.2	6.46	4.5	7.00		
	200				0.5	4.30	1.2	4.47	1.8	4.73	2.4	5.08	3.0	5.49	3.5	5.96	3.9	6.46	4.1	7.00		
	205				0.5	4.30	1.1	4.47	1.7	4.73	2.2	5.08	2.8	5.49	3.3	5.96	3.6	6.46	3.8	7.00		
	210				0.5	4.30	1.0	4.47	1.5	4.73	2.1	5.08	2.6	5.49	3.0	5.96	3.3	6.46	3.4	7.00		
	215				0.4	4.30	0.9	4.47	1.4	4.73	1.9	5.08	2.4	5.49	2.7	5.96	3.0	6.46	3.1	7.00		
	220				0.4	4.30	0.8	4.47	1.3	4.73	1.7	5.08	2.1	5.49	2.5	5.96	2.7	6.46	2.7	7.00		
	225				0.3	4.30	0.7	4.47	1.1	4.73	1.5	5.08	1.9	5.49	2.2	5.96	2.4	6.46	2.4	7.00		
	230				0.3	4.30	0.6	4.47	1.0	4.73	1.4	5.08	1.7	5.49	1.9	5.96	2.1	6.46	2.0	7.00		
	235				0.2	4.30	0.5	4.47	0.9	4.73	1.2	5.08	1.5	5.49	1.7	5.96	1.7	6.46	1.7	7.00		
	240				0.2	4.30	0.4	4.47	0.7	4.73	1.0	5.08	1.3	5.49	1.4	5.96	1.4	6.46	1.3	7.00		
	245				0.1	4.30	0.4	4.47	0.6	4.73	0.8	5.08	1.0	5.49	1.1	5.96	1.1	6.46	1.0	7.00		
	250				0.1	4.30	0.3	4.47	0.5	4.73	0.7	5.08	0.8	5.49	0.9	5.96	0.8	6.46	0.6	7.00		
8	185						0.7	4.30	1.5	4.47	2.3	4.73	3.0	5.08	3.6	5.49	4.1	5.96	4.5	6.46		
	190						0.7	4.30	1.4	4.47	2.2	4.73	2.8	5.08	3.4	5.49	3.9	5.96	4.2	6.46		
	195						0.7	4.30	1.3	4.47	2.0	4.73	2.7	5.08	3.2	5.49	3.6	5.96	3.9	6.46		
	200						0.6	4.30	1.3	4.47	1.9	4.73	2.5	5.08	3.0	5.49	3.4	5.96	3.6	6.46		
	205						0.6	4.30	1.2	4.47	1.8	4.73	2.3	5.08	2.8	5.49	3.1	5.96	3.3	6.46		
	210						0.5	4.30	1.1	4.47	1.6	4.73	2.1	5.08	2.5	5.49	2.8	5.96	3.0	6.46		
	215						0.5	4.30	1.0	4.47	1.5	4.73	1.9	5.08	2.3	5.49	2.6	5.96	2.7	6.46		
	220						0.4	4.30	0.9	4.47	1.4	4.73	1.8	5.08	2.1	5.49	2.3	5.96	2.3	6.46		
	225						0.4	4.30	0.8	4.47	1.2	4.73	1.6	5.08	1.9	5.49	2.0	5.96	2.0	6.46		
	230						0.3	4.30	0.7	4.47	1.1	4.73	1.4	5.08	1.7	5.49	1.8	5.96	1.7	6.46		
	235						0.3	4.30	0.6	4.47	1.0	4.73	1.2	5.08	1.4	5.49	1.5	5.96	1.4	6.46		
	240						0.3	4.30	0.6	4.47	0.8	4.73	1.1	5.08	1.2	5.49	1.3	5.96	1.1	6.46		
	245						0.2	4.30	0.5	4.47	0.7	4.73	0.9	5.08	1.0	5.49	1.0	5.96	0.8	6.46		
	250						0.2	4.30	0.4	4.47	0.6	4.73	0.7	5.08	0.8	5.49	0.7	5.96	0.5	6.46		
12	185								0.8	4.30	1.5	4.47	2.3	4.73	2.9	5.08	3.4	5.49	3.8	5.96		
	190								0.7	4.30	1.5	4.47	2.1	4.73	2.7	5.08	3.2	5.49	3.5	5.96		
	195								0.7	4.30	1.4	4.47	2.0	4.73	2.5	5.08	3.0	5.49	3.2	5.96		
	200								0.6	4.30	1.3	4.47	1.9	4.73	2.4	5.08	2.8	5.49	3.0	5.96		
	205								0.6	4.30	1.2	4.47	1.7	4.73	2.2	5.08	2.5	5.49	2.7	5.96		
	210								0.6	4.30	1.1	4.47	1.6	4.73	2.0	5.08	2.3	5.49	2.4	5.96		
	215								0.5	4.30	1.0	4.47	1.5	4.73	1.8	5.08	2.1	5.49	2.2	5.96		

Table C.17. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	220							0.5	4.30	0.9	4.47	1.3	4.73	1.7	5.08	1.9	5.49	1.9	5.96		
	225							0.4	4.30	0.8	4.47	1.2	4.73	1.5	5.08	1.7	5.49	1.7	5.96		
	230							0.4	4.30	0.8	4.47	1.1	4.73	1.3	5.08	1.4	5.49	1.4	5.96		
	235							0.3	4.30	0.7	4.47	0.9	4.73	1.1	5.08	1.2	5.49	1.1	5.96		
	240							0.3	4.30	0.6	4.47	0.8	4.73	1.0	5.08	1.0	5.49	0.9	5.96		
	245							0.3	4.30	0.5	4.47	0.7	4.73	0.8	5.08	0.8	5.49	0.6	5.96		
	250							0.2	4.30	0.4	4.47	0.6	4.73	0.6	5.08	0.6	5.49	0.3	5.96		
16	185									0.8	4.30	1.5	4.47	2.1	4.73	2.6	5.08	3.0	5.49		
	190									0.7	4.30	1.4	4.47	2.0	4.73	2.5	5.08	2.8	5.49		
	195									0.7	4.30	1.3	4.47	1.9	4.73	2.3	5.08	2.5	5.49		
	200									0.6	4.30	1.2	4.47	1.7	4.73	2.1	5.08	2.3	5.49		
	205									0.6	4.30	1.1	4.47	1.6	4.73	1.9	5.08	2.1	5.49		
	210									0.6	4.30	1.1	4.47	1.5	4.73	1.8	5.08	1.9	5.49		
	215									0.5	4.30	1.0	4.47	1.3	4.73	1.6	5.08	1.7	5.49		
	220									0.5	4.30	0.9	4.47	1.2	4.73	1.4	5.08	1.5	5.49		
	225									0.4	4.30	0.8	4.47	1.1	4.73	1.2	5.08	1.2	5.49		
	230									0.4	4.30	0.7	4.47	0.9	4.73	1.1	5.08	1.0	5.49		
	235									0.3	4.30	0.6	4.47	0.8	4.73	0.9	5.08	0.8	5.49		
	240									0.3	4.30	0.5	4.47	0.7	4.73	0.7	5.08	0.6	5.49		
	245									0.2	4.30	0.4	4.47	0.5	4.73	0.5	5.08	0.4	5.49		
250									0.2	4.30	0.3	4.47	0.4	4.73	0.4	5.08	0.1	5.49			
20	185											0.7	4.30	1.4	4.47	1.9	4.73	2.2	5.08		
	190											0.7	4.30	1.3	4.47	1.7	4.73	2.0	5.08		
	195											0.6	4.30	1.2	4.47	1.6	4.73	1.9	5.08		
	200											0.6	4.30	1.1	4.47	1.5	4.73	1.7	5.08		
	205											0.5	4.30	1.0	4.47	1.3	4.73	1.5	5.08		
	210											0.5	4.30	0.9	4.47	1.2	4.73	1.3	5.08		
	215											0.5	4.30	0.8	4.47	1.1	4.73	1.2	5.08		
	220											0.4	4.30	0.7	4.47	1.0	4.73	1.0	5.08		
	225											0.4	4.30	0.7	4.47	0.8	4.73	0.8	5.08		
	230											0.3	4.30	0.6	4.47	0.7	4.73	0.6	5.08		
	235											0.3	4.30	0.5	4.47	0.6	4.73	0.5	5.08		
	240											0.2	4.30	0.4	4.47	0.4	4.73	0.3	5.08		
	245											0.2	4.30	0.3	4.47	0.3	4.73	0.1	5.08		

Table C.17. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																					
		Prior Grd		Focal Grade																			
		36		4		8		12		16		20		24		28		32		36			
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	250													0.2	4.30	0.2	4.47	0.2	4.73	-0.1	5.08		

Table C.18. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 9

Start Inst.	Start Wk	Start RIT	Ending Instructional Weeks																		
			Prior Grd		Focal Grade																
			36		4		8		12		16		20		24		28		32		36
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 8)	185	0.0	4.32	0.2	4.54	0.4	4.88	0.7	5.33	1.1	5.85	1.5	6.43	2.0	7.06	2.6	7.72	3.1	8.40	3.6	9.10
	190	0.0	4.32	0.1	4.54	0.3	4.88	0.6	5.33	0.9	5.85	1.4	6.43	1.8	7.06	2.3	7.72	2.8	8.40	3.3	9.10
	195	-0.1	4.32	0.0	4.54	0.2	4.88	0.4	5.33	0.8	5.85	1.2	6.43	1.6	7.06	2.0	7.72	2.5	8.40	3.0	9.10
	200	-0.1	4.32	0.0	4.54	0.1	4.88	0.3	5.33	0.6	5.85	1.0	6.43	1.4	7.06	1.8	7.72	2.2	8.40	2.6	9.10
	205	-0.1	4.32	-0.1	4.54	0.0	4.88	0.2	5.33	0.4	5.85	0.8	6.43	1.1	7.06	1.5	7.72	1.9	8.40	2.3	9.10
	210	-0.1	4.32	-0.2	4.54	-0.1	4.88	0.1	5.33	0.3	5.85	0.6	6.43	0.9	7.06	1.2	7.72	1.6	8.40	2.0	9.10
	215	-0.2	4.32	-0.2	4.54	-0.2	4.88	-0.1	5.33	0.1	5.85	0.4	6.43	0.7	7.06	1.0	7.72	1.3	8.40	1.7	9.10
	220	-0.2	4.32	-0.3	4.54	-0.3	4.88	-0.2	5.33	-0.1	5.85	0.2	6.43	0.4	7.06	0.7	7.72	1.0	8.40	1.3	9.10
	225	-0.2	4.32	-0.4	4.54	-0.4	4.88	-0.3	5.33	-0.2	5.85	0.0	6.43	0.2	7.06	0.5	7.72	0.7	8.40	1.0	9.10
	230	-0.3	4.32	-0.4	4.54	-0.5	4.88	-0.5	5.33	-0.4	5.85	-0.2	6.43	0.0	7.06	0.2	7.72	0.4	8.40	0.7	9.10
	235	-0.3	4.32	-0.5	4.54	-0.6	4.88	-0.6	5.33	-0.5	5.85	-0.4	6.43	-0.3	7.06	-0.1	7.72	0.1	8.40	0.3	9.10
	240	-0.3	4.32	-0.6	4.54	-0.7	4.88	-0.7	5.33	-0.7	5.85	-0.6	6.43	-0.5	7.06	-0.3	7.72	-0.2	8.40	0.0	9.10
	245	-0.4	4.32	-0.6	4.54	-0.8	4.88	-0.9	5.33	-0.9	5.85	-0.8	6.43	-0.7	7.06	-0.6	7.72	-0.5	8.40	-0.3	9.10
	250	-0.4	4.32	-0.7	4.54	-0.9	4.88	-1.0	5.33	-1.0	5.85	-1.0	6.43	-0.9	7.06	-0.9	7.72	-0.7	8.40	-0.6	9.10
255	-0.4	4.32	-0.8	4.54	-1.0	4.88	-1.1	5.33	-1.2	5.85	-1.2	6.43	-1.2	7.06	-1.1	7.72	-1.0	8.40	-1.0	9.10	
36 (Gd 8)	185			0.1	4.32	0.4	4.54	0.7	4.88	1.1	5.33	1.5	5.85	2.0	6.43	2.5	7.06	3.1	7.72	3.6	8.40
	190			0.1	4.32	0.3	4.54	0.6	4.88	1.0	5.33	1.4	5.85	1.8	6.43	2.3	7.06	2.8	7.72	3.3	8.40
	195			0.1	4.32	0.2	4.54	0.5	4.88	0.8	5.33	1.2	5.85	1.6	6.43	2.1	7.06	2.5	7.72	3.0	8.40
	200			0.0	4.32	0.2	4.54	0.4	4.88	0.7	5.33	1.0	5.85	1.4	6.43	1.9	7.06	2.3	7.72	2.7	8.40
	205			0.0	4.32	0.1	4.54	0.3	4.88	0.6	5.33	0.9	5.85	1.2	6.43	1.6	7.06	2.0	7.72	2.4	8.40
	210			0.0	4.32	0.0	4.54	0.2	4.88	0.4	5.33	0.7	5.85	1.0	6.43	1.4	7.06	1.8	7.72	2.1	8.40
	215			-0.1	4.32	0.0	4.54	0.1	4.88	0.3	5.33	0.5	5.85	0.8	6.43	1.2	7.06	1.5	7.72	1.8	8.40
	220			-0.1	4.32	-0.1	4.54	0.0	4.88	0.2	5.33	0.4	5.85	0.6	6.43	0.9	7.06	1.2	7.72	1.5	8.40
	225			-0.1	4.32	-0.2	4.54	-0.1	4.88	0.0	5.33	0.2	5.85	0.5	6.43	0.7	7.06	1.0	7.72	1.2	8.40
	230			-0.2	4.32	-0.2	4.54	-0.2	4.88	-0.1	5.33	0.1	5.85	0.3	6.43	0.5	7.06	0.7	7.72	1.0	8.40
	235			-0.2	4.32	-0.3	4.54	-0.3	4.88	-0.2	5.33	-0.1	5.85	0.1	6.43	0.2	7.06	0.5	7.72	0.7	8.40
	240			-0.2	4.32	-0.4	4.54	-0.4	4.88	-0.4	5.33	-0.3	5.85	-0.1	6.43	0.0	7.06	0.2	7.72	0.4	8.40
	245			-0.3	4.32	-0.4	4.54	-0.5	4.88	-0.5	5.33	-0.4	5.85	-0.3	6.43	-0.2	7.06	-0.1	7.72	0.1	8.40
	250			-0.3	4.32	-0.5	4.54	-0.6	4.88	-0.6	5.33	-0.6	5.85	-0.5	6.43	-0.4	7.06	-0.3	7.72	-0.2	8.40
255			-0.3	4.32	-0.6	4.54	-0.7	4.88	-0.8	5.33	-0.8	5.85	-0.7	6.43	-0.7	7.06	-0.6	7.72	-0.5	8.40	
4	185					0.2	4.32	0.6	4.54	0.9	4.88	1.4	5.33	1.9	5.85	2.4	6.43	2.9	7.06	3.5	7.72
	190					0.2	4.32	0.5	4.54	0.9	4.88	1.3	5.33	1.7	5.85	2.2	6.43	2.7	7.06	3.2	7.72

Table C.18. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	195			0.2	4.32	0.4	4.54	0.8	4.88	1.1	5.33	1.6	5.85	2.0	6.43	2.5	7.06	2.9	7.72		
	200			0.1	4.32	0.4	4.54	0.7	4.88	1.0	5.33	1.4	5.85	1.8	6.43	2.2	7.06	2.7	7.72		
	205			0.1	4.32	0.3	4.54	0.6	4.88	0.9	5.33	1.2	5.85	1.6	6.43	2.0	7.06	2.4	7.72		
	210			0.1	4.32	0.2	4.54	0.5	4.88	0.7	5.33	1.1	5.85	1.4	6.43	1.8	7.06	2.2	7.72		
	215			0.0	4.32	0.2	4.54	0.4	4.88	0.6	5.33	0.9	5.85	1.2	6.43	1.6	7.06	1.9	7.72		
	220			0.0	4.32	0.1	4.54	0.3	4.88	0.5	5.33	0.7	5.85	1.0	6.43	1.3	7.06	1.6	7.72		
	225			0.0	4.32	0.0	4.54	0.2	4.88	0.4	5.33	0.6	5.85	0.8	6.43	1.1	7.06	1.4	7.72		
	230			-0.1	4.32	0.0	4.54	0.1	4.88	0.2	5.33	0.4	5.85	0.6	6.43	0.9	7.06	1.1	7.72		
	235			-0.1	4.32	-0.1	4.54	0.0	4.88	0.1	5.33	0.3	5.85	0.4	6.43	0.6	7.06	0.9	7.72		
	240			-0.1	4.32	-0.2	4.54	-0.1	4.88	-0.1	5.33	0.1	5.85	0.2	6.43	0.4	7.06	0.6	7.72		
	245			-0.2	4.32	-0.2	4.54	-0.2	4.88	-0.2	5.33	-0.1	5.85	0.1	6.43	0.2	7.06	0.3	7.72		
	250			-0.2	4.32	-0.3	4.54	-0.3	4.88	-0.3	5.33	-0.2	5.85	-0.2	6.43	0.0	7.06	0.1	7.72		
	255			-0.2	4.32	-0.4	4.54	-0.4	4.88	-0.4	5.33	-0.4	5.85	-0.4	6.43	-0.3	7.06	-0.2	7.72		
8	185					0.3	4.32	0.7	4.54	1.2	4.88	1.7	5.33	2.2	5.85	2.7	6.43	3.2	7.06		
	190					0.3	4.32	0.6	4.54	1.1	4.88	1.5	5.33	2.0	5.85	2.5	6.43	3.0	7.06		
	195					0.3	4.32	0.6	4.54	1.0	4.88	1.4	5.33	1.8	5.85	2.3	6.43	2.8	7.06		
	200					0.2	4.32	0.5	4.54	0.9	4.88	1.3	5.33	1.7	5.85	2.1	6.43	2.5	7.06		
	205					0.2	4.32	0.5	4.54	0.8	4.88	1.1	5.33	1.5	5.85	1.9	6.43	2.3	7.06		
	210					0.2	4.32	0.4	4.54	0.7	4.88	1.0	5.33	1.4	5.85	1.7	6.43	2.1	7.06		
	215					0.1	4.32	0.3	4.54	0.6	4.88	0.9	5.33	1.2	5.85	1.5	6.43	1.9	7.06		
	220					0.1	4.32	0.3	4.54	0.5	4.88	0.7	5.33	1.0	5.85	1.3	6.43	1.6	7.06		
	225					0.1	4.32	0.2	4.54	0.4	4.88	0.6	5.33	0.9	5.85	1.1	6.43	1.4	7.06		
	230					0.0	4.32	0.1	4.54	0.3	4.88	0.5	5.33	0.7	5.85	0.9	6.43	1.2	7.06		
	235					0.0	4.32	0.1	4.54	0.2	4.88	0.3	5.33	0.5	5.85	0.7	6.43	0.9	7.06		
	240					0.0	4.32	0.0	4.54	0.1	4.88	0.2	5.33	0.4	5.85	0.5	6.43	0.7	7.06		
	245					-0.1	4.32	-0.1	4.54	0.0	4.88	0.1	5.33	0.2	5.85	0.3	6.43	0.5	7.06		
	250					-0.1	4.32	-0.1	4.54	-0.1	4.88	-0.1	5.33	0.0	5.85	0.2	6.43	0.3	7.06		
	255					-0.1	4.32	-0.2	4.54	-0.2	4.88	-0.2	5.33	-0.1	5.85	-0.1	6.43	0.0	7.06		
12	185							0.4	4.32	0.8	4.54	1.3	4.88	1.9	5.33	2.4	5.85	2.9	6.43		
	190							0.4	4.32	0.8	4.54	1.2	4.88	1.7	5.33	2.2	5.85	2.7	6.43		
	195							0.3	4.32	0.7	4.54	1.1	4.88	1.6	5.33	2.1	5.85	2.5	6.43		
	200							0.3	4.32	0.6	4.54	1.0	4.88	1.5	5.33	1.9	5.85	2.3	6.43		
	205							0.3	4.32	0.6	4.54	0.9	4.88	1.3	5.33	1.7	5.85	2.1	6.43		
	210							0.2	4.32	0.5	4.54	0.8	4.88	1.2	5.33	1.6	5.85	1.9	6.43		

Table C.18. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4	8	12	16	20	24	28	32	36							
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	215							0.2	4.32	0.5	4.54	0.7	4.88	1.1	5.33	1.4	5.85	1.7	6.43
	220							0.2	4.32	0.4	4.54	0.6	4.88	0.9	5.33	1.2	5.85	1.5	6.43
	225							0.1	4.32	0.3	4.54	0.5	4.88	0.8	5.33	1.1	5.85	1.3	6.43
	230							0.1	4.32	0.3	4.54	0.5	4.88	0.7	5.33	0.9	5.85	1.1	6.43
	235							0.1	4.32	0.2	4.54	0.4	4.88	0.5	5.33	0.7	5.85	1.0	6.43
	240							0.0	4.32	0.1	4.54	0.3	4.88	0.4	5.33	0.6	5.85	0.8	6.43
	245							0.0	4.32	0.1	4.54	0.2	4.88	0.3	5.33	0.4	5.85	0.6	6.43
	250							0.0	4.32	0.0	4.54	0.1	4.88	0.2	5.33	0.3	5.85	0.4	6.43
	255							-0.1	4.32	-0.1	4.54	0.0	4.88	0.0	5.33	0.1	5.85	0.2	6.43
16	185									0.5	4.32	0.9	4.54	1.5	4.88	2.0	5.33	2.5	5.85
	190									0.4	4.32	0.9	4.54	1.4	4.88	1.9	5.33	2.4	5.85
	195									0.4	4.32	0.8	4.54	1.3	4.88	1.7	5.33	2.2	5.85
	200									0.4	4.32	0.7	4.54	1.2	4.88	1.6	5.33	2.0	5.85
	205									0.3	4.32	0.7	4.54	1.1	4.88	1.5	5.33	1.9	5.85
	210									0.3	4.32	0.6	4.54	1.0	4.88	1.3	5.33	1.7	5.85
	215									0.3	4.32	0.6	4.54	0.9	4.88	1.2	5.33	1.5	5.85
	220									0.2	4.32	0.5	4.54	0.8	4.88	1.1	5.33	1.4	5.85
	225									0.2	4.32	0.4	4.54	0.7	4.88	0.9	5.33	1.2	5.85
	230									0.2	4.32	0.4	4.54	0.6	4.88	0.8	5.33	1.1	5.85
	235									0.1	4.32	0.3	4.54	0.5	4.88	0.7	5.33	0.9	5.85
	240									0.1	4.32	0.2	4.54	0.4	4.88	0.6	5.33	0.7	5.85
	245									0.1	4.32	0.2	4.54	0.3	4.88	0.4	5.33	0.6	5.85
	250									0.0	4.32	0.1	4.54	0.2	4.88	0.3	5.33	0.4	5.85
255									0.0	4.32	0.0	4.54	0.1	4.88	0.2	5.33	0.2	5.85	
20	185											0.5	4.32	1.0	4.54	1.5	4.88	2.1	5.33
	190											0.5	4.32	0.9	4.54	1.4	4.88	1.9	5.33
	195											0.4	4.32	0.9	4.54	1.3	4.88	1.8	5.33
	200											0.4	4.32	0.8	4.54	1.3	4.88	1.7	5.33
	205											0.4	4.32	0.8	4.54	1.2	4.88	1.6	5.33
	210											0.3	4.32	0.7	4.54	1.1	4.88	1.4	5.33
	215											0.3	4.32	0.6	4.54	1.0	4.88	1.3	5.33
	220											0.3	4.32	0.6	4.54	0.9	4.88	1.2	5.33
	225											0.2	4.32	0.5	4.54	0.8	4.88	1.0	5.33
	230											0.2	4.32	0.4	4.54	0.7	4.88	0.9	5.33

Table C.18. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4		8		12		16		20		24		28		32	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
235												0.2	4.32	0.4	4.54	0.6	4.88	0.8	5.33
240												0.1	4.32	0.3	4.54	0.5	4.88	0.6	5.33
245												0.1	4.32	0.2	4.54	0.4	4.88	0.5	5.33
250												0.1	4.32	0.2	4.54	0.3	4.88	0.4	5.33
255												0.0	4.32	0.1	4.54	0.2	4.88	0.2	5.33

Table C.19. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 9)	185	-0.1	4.36	-0.1	4.69	0.0	5.20	0.1	5.83	0.3	6.56	0.5	7.35	0.6	8.19	0.8	9.06	1.0	9.95	1.1	10.87
	190	-0.1	4.36	-0.1	4.69	0.0	5.20	0.1	5.83	0.3	6.56	0.4	7.35	0.6	8.19	0.8	9.06	0.9	9.95	1.0	10.87
	195	-0.1	4.36	-0.1	4.69	0.0	5.20	0.1	5.83	0.2	6.56	0.4	7.35	0.6	8.19	0.8	9.06	0.9	9.95	1.0	10.87
	200	-0.1	4.36	-0.1	4.69	0.0	5.20	0.1	5.83	0.2	6.56	0.4	7.35	0.6	8.19	0.7	9.06	0.9	9.95	1.0	10.87
	205	-0.1	4.36	-0.1	4.69	0.0	5.20	0.1	5.83	0.2	6.56	0.4	7.35	0.5	8.19	0.7	9.06	0.8	9.95	0.9	10.87
	210	-0.1	4.36	-0.1	4.69	-0.1	5.20	0.1	5.83	0.2	6.56	0.4	7.35	0.5	8.19	0.7	9.06	0.8	9.95	0.9	10.87
	215	-0.1	4.36	-0.1	4.69	-0.1	5.20	0.0	5.83	0.2	6.56	0.3	7.35	0.5	8.19	0.7	9.06	0.8	9.95	0.9	10.87
	220	-0.1	4.36	-0.1	4.69	-0.1	5.20	0.0	5.83	0.2	6.56	0.3	7.35	0.5	8.19	0.6	9.06	0.8	9.95	0.8	10.87
	225	-0.1	4.36	-0.1	4.69	-0.1	5.20	0.0	5.83	0.2	6.56	0.3	7.35	0.5	8.19	0.6	9.06	0.7	9.95	0.8	10.87
	230	-0.1	4.36	-0.1	4.69	-0.1	5.20	0.0	5.83	0.1	6.56	0.3	7.35	0.4	8.19	0.6	9.06	0.7	9.95	0.8	10.87
	235	-0.1	4.36	-0.1	4.69	-0.1	5.20	0.0	5.83	0.1	6.56	0.3	7.35	0.4	8.19	0.6	9.06	0.7	9.95	0.7	10.87
	240	-0.1	4.36	-0.1	4.69	-0.1	5.20	0.0	5.83	0.1	6.56	0.2	7.35	0.4	8.19	0.5	9.06	0.6	9.95	0.7	10.87
	245	-0.1	4.36	-0.2	4.69	-0.1	5.20	0.0	5.83	0.1	6.56	0.2	7.35	0.4	8.19	0.5	9.06	0.6	9.95	0.7	10.87
	250	-0.1	4.36	-0.2	4.69	-0.1	5.20	0.0	5.83	0.1	6.56	0.2	7.35	0.3	8.19	0.5	9.06	0.6	9.95	0.6	10.87
255	-0.1	4.36	-0.2	4.69	-0.1	5.20	-0.1	5.83	0.1	6.56	0.2	7.35	0.3	8.19	0.4	9.06	0.6	9.95	0.6	10.87	
260	-0.1	4.36	-0.2	4.69	-0.1	5.20	-0.1	5.83	0.0	6.56	0.2	7.35	0.3	8.19	0.4	9.06	0.5	9.95	0.6	10.87	
36 (Gd 9)	185			0.0	4.36	0.1	4.69	0.2	5.20	0.4	5.83	0.5	6.56	0.7	7.35	0.9	8.19	1.0	9.06	1.1	9.95
	190			0.0	4.36	0.1	4.69	0.2	5.20	0.3	5.83	0.5	6.56	0.7	7.35	0.9	8.19	1.0	9.06	1.1	9.95
	195			0.0	4.36	0.1	4.69	0.2	5.20	0.3	5.83	0.5	6.56	0.7	7.35	0.8	8.19	1.0	9.06	1.1	9.95
	200			0.0	4.36	0.1	4.69	0.2	5.20	0.3	5.83	0.5	6.56	0.7	7.35	0.8	8.19	0.9	9.06	1.0	9.95
	205			0.0	4.36	0.1	4.69	0.2	5.20	0.3	5.83	0.5	6.56	0.6	7.35	0.8	8.19	0.9	9.06	1.0	9.95
	210			0.0	4.36	0.0	4.69	0.2	5.20	0.3	5.83	0.4	6.56	0.6	7.35	0.8	8.19	0.9	9.06	1.0	9.95
	215			0.0	4.36	0.0	4.69	0.1	5.20	0.3	5.83	0.4	6.56	0.6	7.35	0.7	8.19	0.9	9.06	1.0	9.95
	220			0.0	4.36	0.0	4.69	0.1	5.20	0.3	5.83	0.4	6.56	0.6	7.35	0.7	8.19	0.8	9.06	0.9	9.95
	225			0.0	4.36	0.0	4.69	0.1	5.20	0.3	5.83	0.4	6.56	0.6	7.35	0.7	8.19	0.8	9.06	0.9	9.95
	230			0.0	4.36	0.0	4.69	0.1	5.20	0.2	5.83	0.4	6.56	0.5	7.35	0.7	8.19	0.8	9.06	0.9	9.95
	235			0.0	4.36	0.0	4.69	0.1	5.20	0.2	5.83	0.4	6.56	0.5	7.35	0.7	8.19	0.8	9.06	0.8	9.95
	240			0.0	4.36	0.0	4.69	0.1	5.20	0.2	5.83	0.4	6.56	0.5	7.35	0.6	8.19	0.7	9.06	0.8	9.95
	245			0.0	4.36	0.0	4.69	0.1	5.20	0.2	5.83	0.3	6.56	0.5	7.35	0.6	8.19	0.7	9.06	0.8	9.95
	250			0.0	4.36	0.0	4.69	0.1	5.20	0.2	5.83	0.3	6.56	0.5	7.35	0.6	8.19	0.7	9.06	0.8	9.95
255			0.0	4.36	0.0	4.69	0.1	5.20	0.2	5.83	0.3	6.56	0.4	7.35	0.6	8.19	0.7	9.06	0.7	9.95	
260			0.0	4.36	0.0	4.69	0.1	5.20	0.2	5.83	0.3	6.56	0.4	7.35	0.5	8.19	0.6	9.06	0.7	9.95	

Table C.19. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4	8	12	16	20	24	28	32	36							
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
4	185				0.1 4.36		0.2 4.69	0.3 5.20	0.5 5.83	0.7 6.56	0.9 7.35	1.0 8.19	1.1 9.06						
	190				0.1 4.36		0.2 4.69	0.3 5.20	0.5 5.83	0.7 6.56	0.9 7.35	1.0 8.19	1.1 9.06						
	195				0.1 4.36		0.2 4.69	0.3 5.20	0.5 5.83	0.7 6.56	0.8 7.35	1.0 8.19	1.1 9.06						
	200				0.1 4.36		0.2 4.69	0.3 5.20	0.5 5.83	0.7 6.56	0.8 7.35	1.0 8.19	1.1 9.06						
	205				0.1 4.36		0.2 4.69	0.3 5.20	0.5 5.83	0.6 6.56	0.8 7.35	0.9 8.19	1.0 9.06						
	210				0.1 4.36		0.2 4.69	0.3 5.20	0.5 5.83	0.6 6.56	0.8 7.35	0.9 8.19	1.0 9.06						
	215				0.1 4.36		0.2 4.69	0.3 5.20	0.4 5.83	0.6 6.56	0.8 7.35	0.9 8.19	1.0 9.06						
	220				0.1 4.36		0.1 4.69	0.3 5.20	0.4 5.83	0.6 6.56	0.7 7.35	0.9 8.19	0.9 9.06						
	225				0.0 4.36		0.1 4.69	0.3 5.20	0.4 5.83	0.6 6.56	0.7 7.35	0.8 8.19	0.9 9.06						
	230				0.0 4.36		0.1 4.69	0.3 5.20	0.4 5.83	0.6 6.56	0.7 7.35	0.8 8.19	0.9 9.06						
	235				0.0 4.36		0.1 4.69	0.3 5.20	0.4 5.83	0.5 6.56	0.7 7.35	0.8 8.19	0.9 9.06						
	240				0.0 4.36		0.1 4.69	0.2 5.20	0.4 5.83	0.5 6.56	0.7 7.35	0.8 8.19	0.8 9.06						
	245				0.0 4.36		0.1 4.69	0.2 5.20	0.4 5.83	0.5 6.56	0.6 7.35	0.8 8.19	0.8 9.06						
	250				0.0 4.36		0.1 4.69	0.2 5.20	0.4 5.83	0.5 6.56	0.6 7.35	0.7 8.19	0.8 9.06						
255				0.0 4.36		0.1 4.69	0.2 5.20	0.3 5.83	0.5 6.56	0.6 7.35	0.7 8.19	0.8 9.06							
260				0.0 4.36		0.1 4.69	0.2 5.20	0.3 5.83	0.5 6.56	0.6 7.35	0.7 8.19	0.7 9.06							
8	185						0.1 4.36	0.3 4.69	0.5 5.20	0.6 5.83	0.8 6.56	0.9 7.35	1.1 8.19						
	190						0.1 4.36	0.3 4.69	0.4 5.20	0.6 5.83	0.8 6.56	0.9 7.35	1.0 8.19						
	195						0.1 4.36	0.3 4.69	0.4 5.20	0.6 5.83	0.8 6.56	0.9 7.35	1.0 8.19						
	200						0.1 4.36	0.3 4.69	0.4 5.20	0.6 5.83	0.8 6.56	0.9 7.35	1.0 8.19						
	205						0.1 4.36	0.3 4.69	0.4 5.20	0.6 5.83	0.7 6.56	0.9 7.35	1.0 8.19						
	210						0.1 4.36	0.2 4.69	0.4 5.20	0.6 5.83	0.7 6.56	0.9 7.35	0.9 8.19						
	215						0.1 4.36	0.2 4.69	0.4 5.20	0.6 5.83	0.7 6.56	0.8 7.35	0.9 8.19						
	220						0.1 4.36	0.2 4.69	0.4 5.20	0.5 5.83	0.7 6.56	0.8 7.35	0.9 8.19						
	225						0.1 4.36	0.2 4.69	0.4 5.20	0.5 5.83	0.7 6.56	0.8 7.35	0.9 8.19						
	230						0.1 4.36	0.2 4.69	0.4 5.20	0.5 5.83	0.7 6.56	0.8 7.35	0.9 8.19						
	235						0.1 4.36	0.2 4.69	0.4 5.20	0.5 5.83	0.6 6.56	0.8 7.35	0.8 8.19						
	240						0.1 4.36	0.2 4.69	0.3 5.20	0.5 5.83	0.6 6.56	0.7 7.35	0.8 8.19						
	245						0.1 4.36	0.2 4.69	0.3 5.20	0.5 5.83	0.6 6.56	0.7 7.35	0.8 8.19						
	250						0.1 4.36	0.2 4.69	0.3 5.20	0.5 5.83	0.6 6.56	0.7 7.35	0.8 8.19						
255						0.1 4.36	0.2 4.69	0.3 5.20	0.5 5.83	0.6 6.56	0.7 7.35	0.7 8.19							
260						0.1 4.36	0.2 4.69	0.3 5.20	0.4 5.83	0.6 6.56	0.7 7.35	0.7 8.19							
12	185							0.2 4.36	0.3 4.69	0.5 5.20	0.7 5.83	0.8 6.56	0.9 7.35						
	190							0.2 4.36	0.3 4.69	0.5 5.20	0.7 5.83	0.8 6.56	0.9 7.35						

Table C.19. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd				
	195							0.2	4.36	0.3	4.69	0.5	5.20	0.7	5.83	0.8	6.56	0.9	7.35		
	200							0.2	4.36	0.3	4.69	0.5	5.20	0.6	5.83	0.8	6.56	0.9	7.35		
	205							0.1	4.36	0.3	4.69	0.5	5.20	0.6	5.83	0.8	6.56	0.9	7.35		
	210							0.1	4.36	0.3	4.69	0.5	5.20	0.6	5.83	0.8	6.56	0.8	7.35		
	215							0.1	4.36	0.3	4.69	0.5	5.20	0.6	5.83	0.7	6.56	0.8	7.35		
	220							0.1	4.36	0.3	4.69	0.4	5.20	0.6	5.83	0.7	6.56	0.8	7.35		
	225							0.1	4.36	0.3	4.69	0.4	5.20	0.6	5.83	0.7	6.56	0.8	7.35		
	230							0.1	4.36	0.3	4.69	0.4	5.20	0.6	5.83	0.7	6.56	0.8	7.35		
	235							0.1	4.36	0.3	4.69	0.4	5.20	0.6	5.83	0.7	6.56	0.7	7.35		
	240							0.1	4.36	0.3	4.69	0.4	5.20	0.5	5.83	0.7	6.56	0.7	7.35		
	245							0.1	4.36	0.3	4.69	0.4	5.20	0.5	5.83	0.6	6.56	0.7	7.35		
	250							0.1	4.36	0.3	4.69	0.4	5.20	0.5	5.83	0.6	6.56	0.7	7.35		
	255							0.1	4.36	0.2	4.69	0.4	5.20	0.5	5.83	0.6	6.56	0.7	7.35		
	260							0.1	4.36	0.2	4.69	0.4	5.20	0.5	5.83	0.6	6.56	0.7	7.35		
16	185											0.2	4.36	0.4	4.69	0.5	5.20	0.7	5.83	0.8	6.56
	190											0.2	4.36	0.4	4.69	0.5	5.20	0.7	5.83	0.8	6.56
	195											0.2	4.36	0.3	4.69	0.5	5.20	0.7	5.83	0.8	6.56
	200											0.2	4.36	0.3	4.69	0.5	5.20	0.6	5.83	0.7	6.56
	205											0.2	4.36	0.3	4.69	0.5	5.20	0.6	5.83	0.7	6.56
	210											0.2	4.36	0.3	4.69	0.5	5.20	0.6	5.83	0.7	6.56
	215											0.2	4.36	0.3	4.69	0.5	5.20	0.6	5.83	0.7	6.56
	220											0.2	4.36	0.3	4.69	0.5	5.20	0.6	5.83	0.7	6.56
	225											0.2	4.36	0.3	4.69	0.5	5.20	0.6	5.83	0.7	6.56
	230											0.2	4.36	0.3	4.69	0.4	5.20	0.6	5.83	0.6	6.56
	235											0.1	4.36	0.3	4.69	0.4	5.20	0.5	5.83	0.6	6.56
	240											0.1	4.36	0.3	4.69	0.4	5.20	0.5	5.83	0.6	6.56
	245											0.1	4.36	0.3	4.69	0.4	5.20	0.5	5.83	0.6	6.56
	250											0.1	4.36	0.3	4.69	0.4	5.20	0.5	5.83	0.6	6.56
	255											0.1	4.36	0.3	4.69	0.4	5.20	0.5	5.83	0.6	6.56
	260											0.1	4.36	0.3	4.69	0.4	5.20	0.5	5.83	0.5	6.56
20	185													0.2	4.36	0.4	4.69	0.5	5.20	0.6	5.83
	190													0.2	4.36	0.3	4.69	0.5	5.20	0.6	5.83
	195													0.2	4.36	0.3	4.69	0.5	5.20	0.6	5.83
	200													0.2	4.36	0.3	4.69	0.5	5.20	0.6	5.83

Table C.19. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - LANGUAGE USAGE, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																					
		Prior Grd		Focal Grade																			
		36		4		8		12		16		20		24		28		32		36			
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
205												0.2	4.36	0.3	4.69	0.5	5.20	0.6	5.83				
210												0.2	4.36	0.3	4.69	0.5	5.20	0.5	5.83				
215												0.2	4.36	0.3	4.69	0.4	5.20	0.5	5.83				
220												0.2	4.36	0.3	4.69	0.4	5.20	0.5	5.83				
225												0.2	4.36	0.3	4.69	0.4	5.20	0.5	5.83				
230												0.2	4.36	0.3	4.69	0.4	5.20	0.5	5.83				
235												0.2	4.36	0.3	4.69	0.4	5.20	0.5	5.83				
240												0.1	4.36	0.3	4.69	0.4	5.20	0.5	5.83				
245												0.1	4.36	0.3	4.69	0.4	5.20	0.5	5.83				
250												0.1	4.36	0.3	4.69	0.4	5.20	0.4	5.83				
255												0.1	4.36	0.3	4.69	0.4	5.20	0.4	5.83				
260												0.1	4.36	0.3	4.69	0.4	5.20	0.4	5.83				

Table C.20. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 1

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd K)	115	3.6	4.34	7.8	4.61	12.2	5.02	16.8	5.55	21.4	6.17	25.7	6.85	29.5	7.57	32.8	8.33	35.3	9.11	36.7	9.91
	120	3.5	4.34	7.5	4.61	11.8	5.02	16.2	5.55	20.6	6.17	24.8	6.85	28.5	7.57	31.7	8.33	34.0	9.11	35.3	9.91
	125	3.3	4.34	7.2	4.61	11.4	5.02	15.7	5.55	19.9	6.17	23.9	6.85	27.5	7.57	30.5	8.33	32.7	9.11	33.9	9.91
	130	3.2	4.34	6.9	4.61	10.9	5.02	15.1	5.55	19.2	6.17	23.1	6.85	26.5	7.57	29.4	8.33	31.4	9.11	32.4	9.91
	135	3.1	4.34	6.6	4.61	10.5	5.02	14.5	5.55	18.5	6.17	22.2	6.85	25.5	7.57	28.2	8.33	30.1	9.11	31.0	9.91
	140	2.9	4.34	6.3	4.61	10.1	5.02	14.0	5.55	17.8	6.17	21.4	6.85	24.5	7.57	27.1	8.33	28.8	9.11	29.6	9.91
	145	2.8	4.34	6.0	4.61	9.6	5.02	13.4	5.55	17.1	6.17	20.5	6.85	23.5	7.57	25.9	8.33	27.5	9.11	28.1	9.91
	150	2.6	4.34	5.8	4.61	9.2	5.02	12.8	5.55	16.3	6.17	19.6	6.85	22.5	7.57	24.8	8.33	26.2	9.11	26.7	9.91
	155	2.5	4.34	5.5	4.61	8.8	5.02	12.2	5.55	15.6	6.17	18.8	6.85	21.5	7.57	23.6	8.33	24.9	9.11	25.2	9.91
	160	2.3	4.34	5.2	4.61	8.4	5.02	11.7	5.55	14.9	6.17	17.9	6.85	20.5	7.57	22.5	8.33	23.6	9.11	23.8	9.91
	165	2.2	4.34	4.9	4.61	7.9	5.02	11.1	5.55	14.2	6.17	17.1	6.85	19.5	7.57	21.3	8.33	22.3	9.11	22.4	9.91
	170	2.1	4.34	4.6	4.61	7.5	5.02	10.5	5.55	13.5	6.17	16.2	6.85	18.5	7.57	20.2	8.33	21.1	9.11	20.9	9.91
	175	1.9	4.34	4.3	4.61	7.1	5.02	9.9	5.55	12.8	6.17	15.3	6.85	17.5	7.57	19.0	8.33	19.8	9.11	19.5	9.91
	180	1.8	4.34	4.0	4.61	6.6	5.02	9.4	5.55	12.0	6.17	14.5	6.85	16.5	7.57	17.9	8.33	18.5	9.11	18.1	9.91
	185	1.6	4.34	3.7	4.61	6.2	5.02	8.8	5.55	11.3	6.17	13.6	6.85	15.5	7.57	16.7	8.33	17.2	9.11	16.6	9.91
190	1.5	4.34	3.5	4.61	5.8	5.02	8.2	5.55	10.6	6.17	12.8	6.85	14.5	7.57	15.6	8.33	15.9	9.11	15.2	9.91	
195	1.3	4.34	3.2	4.61	5.3	5.02	7.6	5.55	9.9	6.17	11.9	6.85	13.5	7.57	14.4	8.33	14.6	9.11	13.8	9.91	
36 (Gd K)	120			4.0	4.34	8.3	4.61	12.8	5.02	17.2	5.55	21.3	6.17	25.1	6.85	28.2	7.57	30.5	8.33	31.8	9.11
	125			3.9	4.34	8.0	4.61	12.3	5.02	16.6	5.55	20.6	6.17	24.2	6.85	27.2	7.57	29.3	8.33	30.5	9.11
	130			3.7	4.34	7.7	4.61	11.9	5.02	16.0	5.55	19.9	6.17	23.3	6.85	26.2	7.57	28.2	8.33	29.2	9.11
	135			3.6	4.34	7.5	4.61	11.5	5.02	15.4	5.55	19.2	6.17	22.5	6.85	25.2	7.57	27.0	8.33	27.9	9.11
	140			3.4	4.34	7.2	4.61	11.0	5.02	14.9	5.55	18.5	6.17	21.6	6.85	24.2	7.57	25.9	8.33	26.6	9.11
	145			3.3	4.34	6.9	4.61	10.6	5.02	14.3	5.55	17.7	6.17	20.8	6.85	23.2	7.57	24.7	8.33	25.4	9.11
	150			3.1	4.34	6.6	4.61	10.2	5.02	13.7	5.55	17.0	6.17	19.9	6.85	22.1	7.57	23.6	8.33	24.1	9.11
	155			3.0	4.34	6.3	4.61	9.8	5.02	13.1	5.55	16.3	6.17	19.0	6.85	21.1	7.57	22.5	8.33	22.8	9.11
	160			2.8	4.34	6.0	4.61	9.3	5.02	12.6	5.55	15.6	6.17	18.2	6.85	20.1	7.57	21.3	8.33	21.5	9.11
	165			2.7	4.34	5.7	4.61	8.9	5.02	12.0	5.55	14.9	6.17	17.3	6.85	19.1	7.57	20.2	8.33	20.2	9.11
	170			2.6	4.34	5.4	4.61	8.5	5.02	11.4	5.55	14.2	6.17	16.5	6.85	18.1	7.57	19.0	8.33	18.9	9.11
	175			2.4	4.34	5.2	4.61	8.0	5.02	10.9	5.55	13.4	6.17	15.6	6.85	17.1	7.57	17.9	8.33	17.6	9.11
	180			2.3	4.34	4.9	4.61	7.6	5.02	10.3	5.55	12.7	6.17	14.7	6.85	16.1	7.57	16.7	8.33	16.3	9.11
	185			2.1	4.34	4.6	4.61	7.2	5.02	9.7	5.55	12.0	6.17	13.9	6.85	15.1	7.57	15.6	8.33	15.0	9.11
	190			2.0	4.34	4.3	4.61	6.7	5.02	9.1	5.55	11.3	6.17	13.0	6.85	14.1	7.57	14.4	8.33	13.7	9.11

Table C.20. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 1

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	195			1.8	4.34	4.0	4.61	6.3	5.02	8.6	5.55	10.6	6.17	12.1	6.85	13.1	7.57	13.3	8.33	12.4	9.11
	200			1.7	4.34	3.7	4.61	5.9	5.02	8.0	5.55	9.8	6.17	11.3	6.85	12.1	7.57	12.1	8.33	11.2	9.11
4	125					4.2	4.34	8.5	4.61	12.7	5.02	16.8	5.55	20.3	6.17	23.3	6.85	25.5	7.57	26.7	8.33
	130					4.0	4.34	8.2	4.61	12.3	5.02	16.2	5.55	19.6	6.17	22.5	6.85	24.5	7.57	25.5	8.33
	135					3.9	4.34	7.9	4.61	11.9	5.02	15.6	5.55	18.9	6.17	21.6	6.85	23.5	7.57	24.4	8.33
	140					3.7	4.34	7.6	4.61	11.5	5.02	15.0	5.55	18.2	6.17	20.7	6.85	22.5	7.57	23.2	8.33
	145					3.6	4.34	7.3	4.61	11.0	5.02	14.5	5.55	17.5	6.17	19.9	6.85	21.5	7.57	22.1	8.33
	150					3.5	4.34	7.1	4.61	10.6	5.02	13.9	5.55	16.8	6.17	19.0	6.85	20.5	7.57	20.9	8.33
	155					3.3	4.34	6.8	4.61	10.2	5.02	13.3	5.55	16.0	6.17	18.2	6.85	19.5	7.57	19.8	8.33
	160					3.2	4.34	6.5	4.61	9.7	5.02	12.7	5.55	15.3	6.17	17.3	6.85	18.5	7.57	18.6	8.33
	165					3.0	4.34	6.2	4.61	9.3	5.02	12.2	5.55	14.6	6.17	16.4	6.85	17.5	7.57	17.5	8.33
	170					2.9	4.34	5.9	4.61	8.9	5.02	11.6	5.55	13.9	6.17	15.6	6.85	16.5	7.57	16.3	8.33
	175					2.7	4.34	5.6	4.61	8.4	5.02	11.0	5.55	13.2	6.17	14.7	6.85	15.4	7.57	15.2	8.33
	180					2.6	4.34	5.3	4.61	8.0	5.02	10.4	5.55	12.5	6.17	13.9	6.85	14.4	7.57	14.0	8.33
	185					2.5	4.34	5.0	4.61	7.6	5.02	9.9	5.55	11.7	6.17	13.0	6.85	13.4	7.57	12.9	8.33
	190					2.3	4.34	4.8	4.61	7.1	5.02	9.3	5.55	11.0	6.17	12.1	6.85	12.4	7.57	11.8	8.33
195					2.2	4.34	4.5	4.61	6.7	5.02	8.7	5.55	10.3	6.17	11.3	6.85	11.4	7.57	10.6	8.33	
200					2.0	4.34	4.2	4.61	6.3	5.02	8.2	5.55	9.6	6.17	10.4	6.85	10.4	7.57	9.5	8.33	
8	125							4.3	4.34	8.6	4.61	12.6	5.02	16.2	5.55	19.1	6.17	21.3	6.85	22.5	7.57
	130							4.2	4.34	8.3	4.61	12.2	5.02	15.6	5.55	18.4	6.17	20.5	6.85	21.5	7.57
	135							4.0	4.34	8.0	4.61	11.7	5.02	15.0	5.55	17.7	6.17	19.6	6.85	20.5	7.57
	140							3.9	4.34	7.7	4.61	11.3	5.02	14.5	5.55	17.0	6.17	18.7	6.85	19.5	7.57
	145							3.7	4.34	7.4	4.61	10.9	5.02	13.9	5.55	16.3	6.17	17.9	6.85	18.5	7.57
	150							3.6	4.34	7.1	4.61	10.4	5.02	13.3	5.55	15.6	6.17	17.0	6.85	17.5	7.57
	155							3.5	4.34	6.8	4.61	10.0	5.02	12.7	5.55	14.8	6.17	16.2	6.85	16.5	7.57
	160							3.3	4.34	6.6	4.61	9.6	5.02	12.2	5.55	14.1	6.17	15.3	6.85	15.5	7.57
	165							3.2	4.34	6.3	4.61	9.1	5.02	11.6	5.55	13.4	6.17	14.4	6.85	14.5	7.57
	170							3.0	4.34	6.0	4.61	8.7	5.02	11.0	5.55	12.7	6.17	13.6	6.85	13.5	7.57
	175							2.9	4.34	5.7	4.61	8.3	5.02	10.4	5.55	12.0	6.17	12.7	6.85	12.5	7.57
	180							2.7	4.34	5.4	4.61	7.9	5.02	9.9	5.55	11.3	6.17	11.9	6.85	11.5	7.57
	185							2.6	4.34	5.1	4.61	7.4	5.02	9.3	5.55	10.5	6.17	11.0	6.85	10.4	7.57
	190							2.4	4.34	4.8	4.61	7.0	5.02	8.7	5.55	9.8	6.17	10.1	6.85	9.4	7.57
195							2.3	4.34	4.6	4.61	6.6	5.02	8.1	5.55	9.1	6.17	9.3	6.85	8.4	7.57	
200							2.2	4.34	4.3	4.61	6.1	5.02	7.6	5.55	8.4	6.17	8.4	6.85	7.4	7.57	

Table C.20. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 1

Start Inst. Wk	Start RIT	Ending Instructional Weeks															
		Prior Grd		Focal Grade													
		36		4	8	12	16	20	24	28	32	36					
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
12	130					4.1	4.34	8.0	4.61	11.4	5.02	14.3	5.55	16.3	6.17	17.3	6.85
	135					4.0	4.34	7.7	4.61	11.0	5.02	13.7	5.55	15.6	6.17	16.5	6.85
	140					3.8	4.34	7.4	4.61	10.6	5.02	13.1	5.55	14.9	6.17	15.6	6.85
	145					3.7	4.34	7.1	4.61	10.1	5.02	12.5	5.55	14.1	6.17	14.7	6.85
	150					3.5	4.34	6.8	4.61	9.7	5.02	12.0	5.55	13.4	6.17	13.9	6.85
	155					3.4	4.34	6.6	4.61	9.3	5.02	11.4	5.55	12.7	6.17	13.0	6.85
	160					3.3	4.34	6.3	4.61	8.9	5.02	10.8	5.55	12.0	6.17	12.2	6.85
	165					3.1	4.34	6.0	4.61	8.4	5.02	10.2	5.55	11.3	6.17	11.3	6.85
	170					3.0	4.34	5.7	4.61	8.0	5.02	9.7	5.55	10.6	6.17	10.4	6.85
	175					2.8	4.34	5.4	4.61	7.6	5.02	9.1	5.55	9.8	6.17	9.6	6.85
	180					2.7	4.34	5.1	4.61	7.1	5.02	8.5	5.55	9.1	6.17	8.7	6.85
	185					2.5	4.34	4.8	4.61	6.7	5.02	8.0	5.55	8.4	6.17	7.9	6.85
	190					2.4	4.34	4.5	4.61	6.3	5.02	7.4	5.55	7.7	6.17	7.0	6.85
	195					2.3	4.34	4.3	4.61	5.8	5.02	6.8	5.55	7.0	6.17	6.1	6.85
200					2.1	4.34	4.0	4.61	5.4	5.02	6.2	5.55	6.3	6.17	5.3	6.85	
205					2.0	4.34	3.7	4.61	5.0	5.02	5.7	5.55	5.5	6.17	4.4	6.85	
16	135							3.7	4.34	7.0	4.61	9.7	5.02	11.6	5.55	12.5	6.17
	140							3.6	4.34	6.7	4.61	9.3	5.02	11.0	5.55	11.8	6.17
	145							3.4	4.34	6.5	4.61	8.9	5.02	10.5	5.55	11.1	6.17
	150							3.3	4.34	6.2	4.61	8.4	5.02	9.9	5.55	10.3	6.17
	155							3.2	4.34	5.9	4.61	8.0	5.02	9.3	5.55	9.6	6.17
	160							3.0	4.34	5.6	4.61	7.6	5.02	8.7	5.55	8.9	6.17
	165							2.9	4.34	5.3	4.61	7.1	5.02	8.2	5.55	8.2	6.17
	170							2.7	4.34	5.0	4.61	6.7	5.02	7.6	5.55	7.5	6.17
	175							2.6	4.34	4.7	4.61	6.3	5.02	7.0	5.55	6.8	6.17
	180							2.4	4.34	4.5	4.61	5.8	5.02	6.4	5.55	6.0	6.17
	185							2.3	4.34	4.2	4.61	5.4	5.02	5.9	5.55	5.3	6.17
	190							2.2	4.34	3.9	4.61	5.0	5.02	5.3	5.55	4.6	6.17
	195							2.0	4.34	3.6	4.61	4.6	5.02	4.7	5.55	3.9	6.17
	200							1.9	4.34	3.3	4.61	4.1	5.02	4.1	5.55	3.2	6.17
205							1.7	4.34	3.0	4.61	3.7	5.02	3.6	5.55	2.5	6.17	
20	140									3.2	4.34	5.7	4.61	7.4	5.02	8.2	5.55
	145									3.0	4.34	5.4	4.61	7.0	5.02	7.6	5.55
	150									2.9	4.34	5.1	4.61	6.6	5.02	7.0	5.55

Table C.20. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 1

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4		8		12		16		20		24		28		32	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
155												2.7	4.34	4.8	4.61	6.2	5.02	6.5	5.55
160												2.6	4.34	4.6	4.61	5.7	5.02	5.9	5.55
165												2.4	4.34	4.3	4.61	5.3	5.02	5.3	5.55
170												2.3	4.34	4.0	4.61	4.9	5.02	4.8	5.55
175												2.2	4.34	3.7	4.61	4.4	5.02	4.2	5.55
180												2.0	4.34	3.4	4.61	4.0	5.02	3.6	5.55
185												1.9	4.34	3.1	4.61	3.6	5.02	3.0	5.55
190												1.7	4.34	2.8	4.61	3.1	5.02	2.5	5.55
195												1.6	4.34	2.6	4.61	2.7	5.02	1.9	5.55
200												1.4	4.34	2.3	4.61	2.3	5.02	1.3	5.55
205												1.3	4.34	2.0	4.61	1.9	5.02	0.7	5.55
210												1.2	4.34	1.7	4.61	1.4	5.02	0.2	5.55

Table C.21. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 2

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 1)	140	1.2	4.31	3.2	4.52	5.7	4.85	8.5	5.27	11.5	5.77	14.6	6.32	17.4	6.92	20.0	7.55	22.0	8.21	23.3	8.89
	145	1.1	4.31	3.0	4.52	5.4	4.85	8.1	5.27	11.1	5.77	14.0	6.32	16.8	6.92	19.2	7.55	21.1	8.21	22.3	8.89
	150	1.0	4.31	2.8	4.52	5.1	4.85	7.8	5.27	10.6	5.77	13.4	6.32	16.1	6.92	18.4	7.55	20.3	8.21	21.4	8.89
	155	1.0	4.31	2.6	4.52	4.8	4.85	7.4	5.27	10.1	5.77	12.9	6.32	15.5	6.92	17.7	7.55	19.4	8.21	20.4	8.89
	160	0.9	4.31	2.4	4.52	4.5	4.85	7.0	5.27	9.6	5.77	12.3	6.32	14.8	6.92	16.9	7.55	18.6	8.21	19.5	8.89
	165	0.8	4.31	2.2	4.52	4.2	4.85	6.6	5.27	9.2	5.77	11.7	6.32	14.1	6.92	16.2	7.55	17.7	8.21	18.5	8.89
	170	0.7	4.31	2.0	4.52	4.0	4.85	6.2	5.27	8.7	5.77	11.2	6.32	13.5	6.92	15.4	7.55	16.8	8.21	17.6	8.89
	175	0.6	4.31	1.9	4.52	3.7	4.85	5.9	5.27	8.2	5.77	10.6	6.32	12.8	6.92	14.7	7.55	16.0	8.21	16.6	8.89
	180	0.5	4.31	1.7	4.52	3.4	4.85	5.5	5.27	7.7	5.77	10.0	6.32	12.1	6.92	13.9	7.55	15.1	8.21	15.7	8.89
	185	0.4	4.31	1.5	4.52	3.1	4.85	5.1	5.27	7.3	5.77	9.5	6.32	11.5	6.92	13.1	7.55	14.3	8.21	14.7	8.89
	190	0.3	4.31	1.3	4.52	2.8	4.85	4.7	5.27	6.8	5.77	8.9	6.32	10.8	6.92	12.4	7.55	13.4	8.21	13.8	8.89
	195	0.2	4.31	1.1	4.52	2.5	4.85	4.3	5.27	6.3	5.77	8.3	6.32	10.1	6.92	11.6	7.55	12.6	8.21	12.8	8.89
	200	0.1	4.31	0.9	4.52	2.3	4.85	4.0	5.27	5.9	5.77	7.7	6.32	9.5	6.92	10.9	7.55	11.7	8.21	11.9	8.89
	205	0.0	4.31	0.7	4.52	2.0	4.85	3.6	5.27	5.4	5.77	7.2	6.32	8.8	6.92	10.1	7.55	10.9	8.21	10.9	8.89
	210	0.1	4.31	0.5	4.52	1.7	4.85	3.2	5.27	4.9	5.77	6.6	6.32	8.2	6.92	9.3	7.55	10.0	8.21	10.0	8.89
215	0.2	4.31	0.3	4.52	1.4	4.85	2.8	5.27	4.4	5.77	6.0	6.32	7.5	6.92	8.6	7.55	9.2	8.21	9.0	8.89	
36 (Gd 1)	140			2.0	4.31	4.4	4.52	7.3	4.85	10.3	5.27	13.3	5.77	16.2	6.32	18.7	6.92	20.7	7.55	22.0	8.21
	145			1.9	4.31	4.2	4.52	7.0	4.85	9.9	5.27	12.9	5.77	15.6	6.32	18.1	6.92	20.0	7.55	21.2	8.21
	150			1.8	4.31	4.1	4.52	6.7	4.85	9.5	5.27	12.4	5.77	15.1	6.32	17.4	6.92	19.2	7.55	20.3	8.21
	155			1.7	4.31	3.9	4.52	6.4	4.85	9.2	5.27	11.9	5.77	14.5	6.32	16.7	6.92	18.5	7.55	19.5	8.21
	160			1.6	4.31	3.7	4.52	6.1	4.85	8.8	5.27	11.4	5.77	13.9	6.32	16.1	6.92	17.7	7.55	18.6	8.21
	165			1.5	4.31	3.5	4.52	5.9	4.85	8.4	5.27	11.0	5.77	13.4	6.32	15.4	6.92	16.9	7.55	17.8	8.21
	170			1.4	4.31	3.3	4.52	5.6	4.85	8.0	5.27	10.5	5.77	12.8	6.32	14.8	6.92	16.2	7.55	16.9	8.21
	175			1.3	4.31	3.1	4.52	5.3	4.85	7.7	5.27	10.0	5.77	12.2	6.32	14.1	6.92	15.4	7.55	16.1	8.21
	180			1.2	4.31	2.9	4.52	5.0	4.85	7.3	5.27	9.6	5.77	11.7	6.32	13.4	6.92	14.7	7.55	15.2	8.21
	185			1.1	4.31	2.7	4.52	4.7	4.85	6.9	5.27	9.1	5.77	11.1	6.32	12.8	6.92	13.9	7.55	14.4	8.21
	190			1.0	4.31	2.5	4.52	4.4	4.85	6.5	5.27	8.6	5.77	10.5	6.32	12.1	6.92	13.1	7.55	13.5	8.21
	195			0.9	4.31	2.3	4.52	4.1	4.85	6.1	5.27	8.1	5.77	10.0	6.32	11.4	6.92	12.4	7.55	12.7	8.21
	200			0.8	4.31	2.2	4.52	3.9	4.85	5.8	5.27	7.7	5.77	9.4	6.32	10.8	6.92	11.6	7.55	11.8	8.21
	205			0.7	4.31	2.0	4.52	3.6	4.85	5.4	5.27	7.2	5.77	8.8	6.32	10.1	6.92	10.9	7.55	10.9	8.21
	210			0.6	4.31	1.8	4.52	3.3	4.85	5.0	5.27	6.7	5.77	8.2	6.32	9.4	6.92	10.1	7.55	10.1	8.21

Table C.21. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 2

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	215	0.5	4.31	1.6	4.52	3.0	4.85	4.6	5.27	6.2	5.77	7.7	6.32	8.8	6.92	9.4	7.55	9.2	8.21		
4	140			2.5	4.31	5.3	4.52	8.4	4.85	11.4	5.27	14.3	5.77	16.8	6.32	18.8	6.92	20.1	7.55		
	145			2.4	4.31	5.1	4.52	8.1	4.85	11.0	5.27	13.8	5.77	16.2	6.32	18.1	6.92	19.3	7.55		
	150			2.3	4.31	5.0	4.52	7.8	4.85	10.6	5.27	13.3	5.77	15.6	6.32	17.5	6.92	18.6	7.55		
	155			2.2	4.31	4.8	4.52	7.5	4.85	10.3	5.27	12.8	5.77	15.1	6.32	16.8	6.92	17.8	7.55		
	160			2.1	4.31	4.6	4.52	7.2	4.85	9.9	5.27	12.4	5.77	14.5	6.32	16.1	6.92	17.1	7.55		
	165			2.0	4.31	4.4	4.52	6.9	4.85	9.5	5.27	11.9	5.77	13.9	6.32	15.5	6.92	16.3	7.55		
	170			1.9	4.31	4.2	4.52	6.7	4.85	9.1	5.27	11.4	5.77	13.4	6.32	14.8	6.92	15.5	7.55		
	175			1.8	4.31	4.0	4.52	6.4	4.85	8.7	5.27	10.9	5.77	12.8	6.32	14.1	6.92	14.8	7.55		
	180			1.7	4.31	3.8	4.52	6.1	4.85	8.4	5.27	10.5	5.77	12.2	6.32	13.5	6.92	14.0	7.55		
	185			1.6	4.31	3.6	4.52	5.8	4.85	8.0	5.27	10.0	5.77	11.7	6.32	12.8	6.92	13.3	7.55		
	190			1.5	4.31	3.4	4.52	5.5	4.85	7.6	5.27	9.5	5.77	11.1	6.32	12.2	6.92	12.5	7.55		
	195			1.4	4.31	3.2	4.52	5.2	4.85	7.2	5.27	9.1	5.77	10.5	6.32	11.5	6.92	11.7	7.55		
	200			1.4	4.31	3.1	4.52	4.9	4.85	6.8	5.27	8.6	5.77	10.0	6.32	10.8	6.92	11.0	7.55		
	205			1.3	4.31	2.9	4.52	4.7	4.85	6.5	5.27	8.1	5.77	9.4	6.32	10.2	6.92	10.2	7.55		
210			1.2	4.31	2.7	4.52	4.4	4.85	6.1	5.27	7.6	5.77	8.8	6.32	9.5	6.92	9.5	7.55			
215			1.1	4.31	2.5	4.52	4.1	4.85	5.7	5.27	7.2	5.77	8.3	6.32	8.8	6.92	8.7	7.55			
8	145					2.8	4.31	5.7	4.52	8.6	4.85	11.4	5.27	13.8	5.77	15.7	6.32	16.9	6.92		
	150					2.7	4.31	5.5	4.52	8.3	4.85	11.0	5.27	13.4	5.77	15.2	6.32	16.3	6.92		
	155					2.6	4.31	5.3	4.52	8.1	4.85	10.6	5.27	12.9	5.77	14.6	6.32	15.6	6.92		
	160					2.5	4.31	5.1	4.52	7.8	4.85	10.3	5.27	12.4	5.77	14.0	6.32	15.0	6.92		
	165					2.4	4.31	4.9	4.52	7.5	4.85	9.9	5.27	11.9	5.77	13.5	6.32	14.3	6.92		
	170					2.3	4.31	4.7	4.52	7.2	4.85	9.5	5.27	11.5	5.77	12.9	6.32	13.6	6.92		
	175					2.2	4.31	4.6	4.52	6.9	4.85	9.1	5.27	11.0	5.77	12.3	6.32	13.0	6.92		
	180					2.1	4.31	4.4	4.52	6.6	4.85	8.7	5.27	10.5	5.77	11.8	6.32	12.3	6.92		
	185					2.0	4.31	4.2	4.52	6.4	4.85	8.4	5.27	10.0	5.77	11.2	6.32	11.6	6.92		
	190					1.9	4.31	4.0	4.52	6.1	4.85	8.0	5.27	9.6	5.77	10.6	6.32	11.0	6.92		
	195					1.8	4.31	3.8	4.52	5.8	4.85	7.6	5.27	9.1	5.77	10.0	6.32	10.3	6.92		
	200					1.7	4.31	3.6	4.52	5.5	4.85	7.2	5.27	8.6	5.77	9.5	6.32	9.6	6.92		
	205					1.6	4.31	3.4	4.52	5.2	4.85	6.9	5.27	8.1	5.77	8.9	6.32	9.0	6.92		
	210					1.5	4.31	3.2	4.52	4.9	4.85	6.5	5.27	7.7	5.77	8.3	6.32	8.3	6.92		
215					1.4	4.31	3.0	4.52	4.6	4.85	6.1	5.27	7.2	5.77	7.8	6.32	7.7	6.92			
12	145							2.9	4.31	5.9	4.52	8.7	4.85	11.1	5.27	13.0	5.77	14.2	6.32		
	150							2.8	4.31	5.7	4.52	8.4	4.85	10.7	5.27	12.5	5.77	13.6	6.32		

Table C.21. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 2

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4	8	12	16	20	24	28	32	36							
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	155					2.7	4.31	5.5	4.52	8.1	4.85	10.3	5.27	12.0	5.77	13.1	6.32		
	160					2.7	4.31	5.3	4.52	7.8	4.85	9.9	5.27	11.6	5.77	12.5	6.32		
	165					2.6	4.31	5.1	4.52	7.5	4.85	9.6	5.27	11.1	5.77	11.9	6.32		
	170					2.5	4.31	4.9	4.52	7.2	4.85	9.2	5.27	10.6	5.77	11.4	6.32		
	175					2.4	4.31	4.7	4.52	6.9	4.85	8.8	5.27	10.1	5.77	10.8	6.32		
	180					2.3	4.31	4.6	4.52	6.7	4.85	8.4	5.27	9.7	5.77	10.2	6.32		
	185					2.2	4.31	4.4	4.52	6.4	4.85	8.0	5.27	9.2	5.77	9.6	6.32		
	190					2.1	4.31	4.2	4.52	6.1	4.85	7.7	5.27	8.7	5.77	9.1	6.32		
	195					2.0	4.31	4.0	4.52	5.8	4.85	7.3	5.27	8.2	5.77	8.5	6.32		
	200					1.9	4.31	3.8	4.52	5.5	4.85	6.9	5.27	7.8	5.77	7.9	6.32		
	205					1.8	4.31	3.6	4.52	5.2	4.85	6.5	5.27	7.3	5.77	7.4	6.32		
	210					1.7	4.31	3.4	4.52	5.0	4.85	6.2	5.27	6.8	5.77	6.8	6.32		
	215					1.6	4.31	3.2	4.52	4.7	4.85	5.8	5.27	6.4	5.77	6.2	6.32		
16	150							2.9	4.31	5.5	4.52	7.9	4.85	9.7	5.27	10.8	5.77		
	155							2.8	4.31	5.3	4.52	7.6	4.85	9.3	5.27	10.3	5.77		
	160							2.7	4.31	5.2	4.52	7.3	4.85	8.9	5.27	9.8	5.77		
	165							2.6	4.31	5.0	4.52	7.0	4.85	8.5	5.27	9.4	5.77		
	170							2.5	4.31	4.8	4.52	6.7	4.85	8.2	5.27	8.9	5.77		
	175							2.4	4.31	4.6	4.52	6.4	4.85	7.8	5.27	8.4	5.77		
	180							2.3	4.31	4.4	4.52	6.2	4.85	7.4	5.27	7.9	5.77		
	185							2.2	4.31	4.2	4.52	5.9	4.85	7.0	5.27	7.5	5.77		
	190							2.1	4.31	4.0	4.52	5.6	4.85	6.6	5.27	7.0	5.77		
	195							2.0	4.31	3.8	4.52	5.3	4.85	6.3	5.27	6.5	5.77		
	200							1.9	4.31	3.6	4.52	5.0	4.85	5.9	5.27	6.0	5.77		
	205							1.8	4.31	3.4	4.52	4.7	4.85	5.5	5.27	5.6	5.77		
	210							1.7	4.31	3.3	4.52	4.4	4.85	5.1	5.27	5.1	5.77		
	215							1.6	4.31	3.1	4.52	4.2	4.85	4.7	5.27	4.6	5.77		
	220							1.5	4.31	2.9	4.52	3.9	4.85	4.4	5.27	4.2	5.77		
20	150									2.7	4.31	5.0	4.52	6.8	4.85	7.9	5.27		
	155									2.6	4.31	4.8	4.52	6.5	4.85	7.6	5.27		
	160									2.5	4.31	4.6	4.52	6.3	4.85	7.2	5.27		
	165									2.4	4.31	4.4	4.52	6.0	4.85	6.8	5.27		
	170									2.3	4.31	4.3	4.52	5.7	4.85	6.4	5.27		
	175									2.2	4.31	4.1	4.52	5.4	4.85	6.0	5.27		

Table C.21. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 2

Start Inst. Wk	Start RIT	Ending Instructional Weeks																					
		Prior Grd		Focal Grade																			
		36		4		8		12		16		20		24		28		32		36			
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
180												2.1	4.31	3.9	4.52	5.1	4.85	5.7	5.27				
185												2.0	4.31	3.7	4.52	4.8	4.85	5.3	5.27				
190												1.9	4.31	3.5	4.52	4.6	4.85	4.9	5.27				
195												1.8	4.31	3.3	4.52	4.3	4.85	4.5	5.27				
200												1.7	4.31	3.1	4.52	4.0	4.85	4.1	5.27				
205												1.6	4.31	2.9	4.52	3.7	4.85	3.8	5.27				
210												1.5	4.31	2.7	4.52	3.4	4.85	3.4	5.27				
215												1.5	4.31	2.6	4.52	3.1	4.85	3.0	5.27				
220												1.4	4.31	2.4	4.52	2.8	4.9	2.6	5.27				

Table C.22. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 3

Start Inst.	Start Wk	RIT	Ending Instructional Weeks																		
			Prior Grd		Focal Grade																
			36	4	8	12	16	20	24	28	32	36									
	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd			
32 (Gd 2)	155	1.0	4.30	2.4	4.45	4.2	4.70	6.2	5.03	8.3	5.42	10.4	5.86	12.3	6.35	13.8	6.86	15.0	7.41	15.6	7.97
	160	0.9	4.30	2.4	4.45	4.1	4.70	6.1	5.03	8.2	5.42	10.2	5.86	12.1	6.35	13.7	6.86	14.8	7.41	15.4	7.97
	165	0.9	4.30	2.3	4.45	4.1	4.70	6.0	5.03	8.1	5.42	10.1	5.86	11.9	6.35	13.5	6.86	14.6	7.41	15.2	7.97
	170	0.9	4.30	2.3	4.45	4.0	4.70	5.9	5.03	8.0	5.42	9.9	5.86	11.8	6.35	13.3	6.86	14.4	7.41	14.9	7.97
	175	0.9	4.30	2.2	4.45	3.9	4.70	5.8	5.03	7.8	5.42	9.8	5.86	11.6	6.35	13.1	6.86	14.2	7.41	14.7	7.97
	180	0.8	4.30	2.2	4.45	3.8	4.70	5.7	5.03	7.7	5.42	9.7	5.86	11.5	6.35	12.9	6.86	14.0	7.41	14.5	7.97
	185	0.8	4.30	2.1	4.45	3.8	4.70	5.7	5.03	7.6	5.42	9.5	5.86	11.3	6.35	12.7	6.86	13.8	7.41	14.2	7.97
	190	0.8	4.30	2.1	4.45	3.7	4.70	5.6	5.03	7.5	5.42	9.4	5.86	11.1	6.35	12.6	6.86	13.6	7.41	14.0	7.97
	195	0.8	4.30	2.0	4.45	3.6	4.70	5.5	5.03	7.4	5.42	9.3	5.86	11.0	6.35	12.4	6.86	13.4	7.41	13.8	7.97
	200	0.8	4.30	2.0	4.45	3.6	4.70	5.4	5.03	7.3	5.42	9.1	5.86	10.8	6.35	12.2	6.86	13.1	7.41	13.5	7.97
	205	0.7	4.30	1.9	4.45	3.5	4.70	5.3	5.03	7.2	5.42	9.0	5.86	10.6	6.35	12.0	6.86	12.9	7.41	13.3	7.97
	210	0.7	4.30	1.9	4.45	3.4	4.70	5.2	5.03	7.0	5.42	8.8	5.86	10.5	6.35	11.8	6.86	12.7	7.41	13.1	7.97
	215	0.7	4.30	1.9	4.45	3.4	4.70	5.1	5.03	6.9	5.42	8.7	5.86	10.3	6.35	11.6	6.86	12.5	7.41	12.9	7.97
	220	0.7	4.30	1.8	4.45	3.3	4.70	5.0	5.03	6.8	5.42	8.6	5.86	10.2	6.35	11.5	6.86	12.3	7.41	12.6	7.97
225	0.6	4.30	1.8	4.45	3.2	4.70	4.9	5.03	6.7	5.42	8.4	5.86	10.0	6.35	11.3	6.86	12.1	7.41	12.4	7.97	
36 (Gd 2)	155			1.4	4.30	3.2	4.45	5.2	4.70	7.3	5.03	9.4	5.42	11.3	5.86	12.9	6.35	14.0	6.86	14.7	7.41
	160			1.4	4.30	3.2	4.45	5.2	4.70	7.3	5.03	9.3	5.42	11.2	5.86	12.7	6.35	13.9	6.86	14.4	7.41
	165			1.4	4.30	3.1	4.45	5.1	4.70	7.2	5.03	9.2	5.42	11.0	5.86	12.6	6.35	13.7	6.86	14.2	7.41
	170			1.4	4.30	3.1	4.45	5.0	4.70	7.1	5.03	9.1	5.42	10.9	5.86	12.4	6.35	13.5	6.86	14.0	7.41
	175			1.4	4.30	3.0	4.45	5.0	4.70	7.0	5.03	8.9	5.42	10.7	5.86	12.2	6.35	13.3	6.86	13.8	7.41
	180			1.3	4.30	3.0	4.45	4.9	4.70	6.9	5.03	8.8	5.42	10.6	5.86	12.1	6.35	13.1	6.86	13.6	7.41
	185			1.3	4.30	3.0	4.45	4.8	4.70	6.8	5.03	8.7	5.42	10.5	5.86	11.9	6.35	12.9	6.86	13.4	7.41
	190			1.3	4.30	2.9	4.45	4.8	4.70	6.7	5.03	8.6	5.42	10.3	5.86	11.8	6.35	12.8	6.86	13.2	7.41
	195			1.3	4.30	2.9	4.45	4.7	4.70	6.6	5.03	8.5	5.42	10.2	5.86	11.6	6.35	12.6	6.86	13.0	7.41
	200			1.2	4.30	2.8	4.45	4.6	4.70	6.5	5.03	8.4	5.42	10.1	5.86	11.4	6.35	12.4	6.86	12.8	7.41
	205			1.2	4.30	2.8	4.45	4.6	4.70	6.4	5.03	8.3	5.42	9.9	5.86	11.3	6.35	12.2	6.86	12.6	7.41
	210			1.2	4.30	2.7	4.45	4.5	4.70	6.3	5.03	8.1	5.42	9.8	5.86	11.1	6.35	12.0	6.86	12.4	7.41
	215			1.2	4.30	2.7	4.45	4.4	4.70	6.2	5.03	8.0	5.42	9.6	5.86	11.0	6.35	11.8	6.86	12.2	7.41
	220			1.1	4.30	2.6	4.45	4.3	4.70	6.2	5.03	7.9	5.42	9.5	5.86	10.8	6.35	11.7	6.86	12.0	7.41
225			1.1	4.30	2.6	4.45	4.3	4.70	6.1	5.03	7.8	5.42	9.4	5.86	10.6	6.35	11.5	6.86	11.8	7.41	
4	155					1.8	4.30	3.8	4.45	5.9	4.70	8.0	5.03	9.9	5.42	11.4	5.86	12.6	6.35	13.2	6.86
	160					1.8	4.30	3.8	4.45	5.8	4.70	7.9	5.03	9.7	5.42	11.3	5.86	12.5	6.35	13.0	6.86

Table C.22. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																				
		Prior Grd		Focal Grade																		
		36		4	8	12	16	20	24	28	32	36										
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	165				1.7	4.30	3.7	4.45	5.8	4.70	7.8	5.03	9.6	5.42	11.2	5.86	12.3	6.35	12.8	6.86		
	170				1.7	4.30	3.7	4.45	5.7	4.70	7.7	5.03	9.5	5.42	11.0	5.86	12.1	6.35	12.7	6.86		
	175				1.7	4.30	3.6	4.45	5.6	4.70	7.6	5.03	9.4	5.42	10.9	5.86	12.0	6.35	12.5	6.86		
	180				1.7	4.30	3.6	4.45	5.6	4.70	7.5	5.03	9.3	5.42	10.8	5.86	11.8	6.35	12.3	6.86		
	185				1.7	4.30	3.5	4.45	5.5	4.70	7.4	5.03	9.2	5.42	10.6	5.86	11.6	6.35	12.1	6.86		
	190				1.6	4.30	3.5	4.45	5.4	4.70	7.3	5.03	9.1	5.42	10.5	5.86	11.5	6.35	11.9	6.86		
	195				1.6	4.30	3.4	4.45	5.4	4.70	7.2	5.03	8.9	5.42	10.3	5.86	11.3	6.35	11.7	6.86		
	200				1.6	4.30	3.4	4.45	5.3	4.70	7.1	5.03	8.8	5.42	10.2	5.86	11.2	6.35	11.6	6.86		
	205				1.6	4.30	3.3	4.45	5.2	4.70	7.0	5.03	8.7	5.42	10.1	5.86	11.0	6.35	11.4	6.86		
	210				1.5	4.30	3.3	4.45	5.1	4.70	7.0	5.03	8.6	5.42	9.9	5.86	10.8	6.35	11.2	6.86		
	215				1.5	4.30	3.3	4.45	5.1	4.70	6.9	5.03	8.5	5.42	9.8	5.86	10.7	6.35	11.0	6.86		
	220				1.5	4.30	3.2	4.45	5.0	4.70	6.8	5.03	8.4	5.42	9.7	5.86	10.5	6.35	10.8	6.86		
	225				1.5	4.30	3.2	4.45	4.9	4.70	6.7	5.03	8.3	5.42	9.5	5.86	10.4	6.35	10.6	6.86		
8	160						2.0	4.30	4.1	4.45	6.1	4.70	8.0	5.03	9.5	5.42	10.7	5.86	11.3	6.35		
	165						2.0	4.30	4.0	4.45	6.0	4.70	7.9	5.03	9.4	5.42	10.5	5.86	11.1	6.35		
	170						1.9	4.30	4.0	4.45	6.0	4.70	7.8	5.03	9.3	5.42	10.4	5.86	10.9	6.35		
	175						1.9	4.30	3.9	4.45	5.9	4.70	7.7	5.03	9.2	5.42	10.3	5.86	10.8	6.35		
	180						1.9	4.30	3.9	4.45	5.8	4.70	7.6	5.03	9.1	5.42	10.1	5.86	10.6	6.35		
	185						1.9	4.30	3.8	4.45	5.8	4.70	7.5	5.03	9.0	5.42	10.0	5.86	10.5	6.35		
	190						1.9	4.30	3.8	4.45	5.7	4.70	7.4	5.03	8.9	5.42	9.9	5.86	10.3	6.35		
	195						1.8	4.30	3.7	4.45	5.6	4.70	7.3	5.03	8.7	5.42	9.7	5.86	10.1	6.35		
	200						1.8	4.30	3.7	4.45	5.6	4.70	7.2	5.03	8.6	5.42	9.6	5.86	10.0	6.35		
	205						1.8	4.30	3.7	4.45	5.5	4.70	7.1	5.03	8.5	5.42	9.4	5.86	9.8	6.35		
	210						1.8	4.30	3.6	4.45	5.4	4.70	7.1	5.03	8.4	5.42	9.3	5.86	9.7	6.35		
	215						1.7	4.30	3.6	4.45	5.4	4.70	7.0	5.03	8.3	5.42	9.2	5.86	9.5	6.35		
	220						1.7	4.30	3.5	4.45	5.3	4.70	6.9	5.03	8.2	5.42	9.0	5.86	9.3	6.35		
	225						1.7	4.30	3.5	4.45	5.2	4.70	6.8	5.03	8.1	5.42	8.9	5.86	9.2	6.35		
12	160								2.1	4.30	4.1	4.45	6.0	4.70	7.6	5.03	8.7	5.42	9.3	5.86		
	165								2.1	4.30	4.1	4.45	5.9	4.70	7.5	5.03	8.6	5.42	9.1	5.86		
	170								2.0	4.30	4.0	4.45	5.9	4.70	7.4	5.03	8.5	5.42	9.0	5.86		
	175								2.0	4.30	4.0	4.45	5.8	4.70	7.3	5.03	8.4	5.42	8.9	5.86		
	180								2.0	4.30	3.9	4.45	5.7	4.70	7.2	5.03	8.2	5.42	8.7	5.86		
	185								2.0	4.30	3.9	4.45	5.6	4.70	7.1	5.03	8.1	5.42	8.6	5.86		
	190								1.9	4.30	3.8	4.45	5.6	4.70	7.0	5.03	8.0	5.42	8.5	5.86		

Table C.22. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4	8	12	16	20	24	28	32	36							
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	195					1.9	4.30	3.8	4.45	5.5	4.70	6.9	5.03	7.9	5.42	8.3	5.86		
	200					1.9	4.30	3.8	4.45	5.4	4.70	6.8	5.03	7.8	5.42	8.2	5.86		
	205					1.9	4.30	3.7	4.45	5.4	4.70	6.7	5.03	7.7	5.42	8.0	5.86		
	210					1.9	4.30	3.7	4.45	5.3	4.70	6.6	5.03	7.6	5.42	7.9	5.86		
	215					1.8	4.30	3.6	4.45	5.2	4.70	6.5	5.03	7.4	5.42	7.8	5.86		
	220					1.8	4.30	3.6	4.45	5.2	4.70	6.5	5.03	7.3	5.42	7.6	5.86		
	225					1.8	4.30	3.5	4.45	5.1	4.70	6.4	5.03	7.2	5.42	7.5	5.86		
16	165							2.0	4.30	3.9	4.45	5.4	4.70	6.5	5.03	7.1	5.42		
	170							2.0	4.30	3.8	4.45	5.3	4.70	6.4	5.03	7.0	5.42		
	175							2.0	4.30	3.8	4.45	5.3	4.70	6.3	5.03	6.9	5.42		
	180							2.0	4.30	3.7	4.45	5.2	4.70	6.3	5.03	6.7	5.42		
	185							1.9	4.30	3.7	4.45	5.1	4.70	6.2	5.03	6.6	5.42		
	190							1.9	4.30	3.6	4.45	5.1	4.70	6.1	5.03	6.5	5.42		
	195							1.9	4.30	3.6	4.45	5.0	4.70	6.0	5.03	6.4	5.42		
	200							1.9	4.30	3.5	4.45	4.9	4.70	5.9	5.03	6.3	5.42		
	205							1.8	4.30	3.5	4.45	4.9	4.70	5.8	5.03	6.2	5.42		
	210							1.8	4.30	3.5	4.45	4.8	4.70	5.7	5.03	6.1	5.42		
	215							1.8	4.30	3.4	4.45	4.7	4.70	5.6	5.03	5.9	5.42		
	220							1.8	4.30	3.4	4.45	4.7	4.70	5.5	5.03	5.8	5.42		
225							1.7	4.30	3.3	4.45	4.6	4.70	5.4	5.03	5.7	5.42			
20	165									1.9	4.30	3.4	4.45	4.5	4.70	5.1	5.03		
	170									1.8	4.30	3.4	4.45	4.4	4.70	5.0	5.03		
	175									1.8	4.30	3.3	4.45	4.4	4.70	4.9	5.03		
	180									1.8	4.30	3.3	4.45	4.3	4.70	4.8	5.03		
	185									1.8	4.30	3.2	4.45	4.2	4.70	4.7	5.03		
	190									1.7	4.30	3.2	4.45	4.2	4.70	4.6	5.03		
	195									1.7	4.30	3.1	4.45	4.1	4.70	4.5	5.03		
	200									1.7	4.30	3.1	4.45	4.0	4.70	4.4	5.03		
	205									1.7	4.30	3.0	4.45	4.0	4.70	4.3	5.03		
	210									1.6	4.30	3.0	4.45	3.9	4.70	4.2	5.03		
	215									1.6	4.30	2.9	4.45	3.8	4.70	4.2	5.03		
	220									1.6	4.30	2.9	4.45	3.8	4.70	4.1	5.03		
225									1.6	4.30	2.8	4.45	3.7	4.70	4.0	5.03			

Table C.23. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 3)	165	0.3	4.29	1.1	4.43	2.2	4.65	3.4	4.94	4.8	5.30	6.1	5.70	7.4	6.14	8.3	6.61	9.0	7.11	9.2	7.63
	170	0.4	4.29	1.1	4.43	2.2	4.65	3.5	4.94	4.9	5.30	6.3	5.70	7.5	6.14	8.5	6.61	9.2	7.11	9.4	7.63
	175	0.4	4.29	1.2	4.43	2.3	4.65	3.6	4.94	5.0	5.30	6.4	5.70	7.6	6.14	8.7	6.61	9.4	7.11	9.6	7.63
	180	0.4	4.29	1.2	4.43	2.3	4.65	3.7	4.94	5.1	5.30	6.5	5.70	7.8	6.14	8.8	6.61	9.5	7.11	9.8	7.63
	185	0.4	4.29	1.3	4.43	2.4	4.65	3.8	4.94	5.2	5.30	6.6	5.70	7.9	6.14	9.0	6.61	9.7	7.11	10.0	7.63
	190	0.4	4.29	1.3	4.43	2.5	4.65	3.8	4.94	5.3	5.30	6.7	5.70	8.1	6.14	9.2	6.61	9.9	7.11	10.2	7.63
	195	0.5	4.29	1.3	4.43	2.5	4.65	3.9	4.94	5.4	5.30	6.9	5.70	8.2	6.14	9.3	6.61	10.1	7.11	10.4	7.63
	200	0.5	4.29	1.4	4.43	2.6	4.65	4.0	4.94	5.5	5.30	7.0	5.70	8.3	6.14	9.5	6.61	10.3	7.11	10.6	7.63
	205	0.5	4.29	1.4	4.43	2.6	4.65	4.1	4.94	5.6	5.30	7.1	5.70	8.5	6.14	9.6	6.61	10.5	7.11	10.8	7.63
	210	0.5	4.29	1.5	4.43	2.7	4.65	4.2	4.94	5.7	5.30	7.2	5.70	8.6	6.14	9.8	6.61	10.6	7.11	11.0	7.63
	215	0.5	4.29	1.5	4.43	2.8	4.65	4.2	4.94	5.8	5.30	7.3	5.70	8.8	6.14	10.0	6.61	10.8	7.11	11.2	7.63
	220	0.6	4.29	1.5	4.43	2.8	4.65	4.3	4.94	5.9	5.30	7.5	5.70	8.9	6.14	10.1	6.61	11.0	7.11	11.4	7.63
	225	0.6	4.29	1.6	4.43	2.9	4.65	4.4	4.94	6.0	5.30	7.6	5.70	9.1	6.14	10.3	6.61	11.2	7.11	11.6	7.63
230	0.6	4.29	1.6	4.43	2.9	4.65	4.5	4.94	6.1	5.3	7.7	5.70	9.19	6.14	10.5	6.61	11.4	7.11	11.8	7.63	
36 (Gd 3)	165			0.8	4.29	1.8	4.43	3.1	4.65	4.4	4.94	5.8	5.30	7.0	5.70	8.0	6.14	8.7	6.61	8.9	7.11
	170			0.8	4.29	1.9	4.43	3.1	4.65	4.5	4.94	5.9	5.30	7.1	5.70	8.1	6.14	8.8	6.61	9.1	7.11
	175			0.8	4.29	1.9	4.43	3.2	4.65	4.6	4.94	6.0	5.30	7.3	5.70	8.3	6.14	9.0	6.61	9.2	7.11
	180			0.8	4.29	1.9	4.43	3.3	4.65	4.7	4.94	6.1	5.30	7.4	5.70	8.4	6.14	9.2	6.61	9.4	7.11
	185			0.8	4.29	2.0	4.43	3.3	4.65	4.8	4.94	6.2	5.30	7.5	5.70	8.6	6.14	9.3	6.61	9.6	7.11
	190			0.9	4.29	2.0	4.43	3.4	4.65	4.9	4.94	6.3	5.30	7.6	5.70	8.7	6.14	9.5	6.61	9.8	7.11
	195			0.9	4.29	2.1	4.43	3.5	4.65	4.9	4.94	6.4	5.30	7.7	5.70	8.9	6.14	9.6	6.61	10.0	7.11
	200			0.9	4.29	2.1	4.43	3.5	4.65	5.0	4.94	6.5	5.30	7.9	5.70	9.0	6.14	9.8	6.61	10.2	7.11
	205			0.9	4.29	2.1	4.43	3.6	4.65	5.1	4.94	6.6	5.30	8.0	5.70	9.1	6.14	10.0	6.61	10.3	7.11
	210			0.9	4.29	2.2	4.43	3.6	4.65	5.2	4.94	6.7	5.30	8.1	5.70	9.3	6.14	10.1	6.61	10.5	7.11
	215			1.0	4.29	2.2	4.43	3.7	4.65	5.3	4.94	6.8	5.30	8.2	5.70	9.4	6.14	10.3	6.61	10.7	7.11
	220			1.0	4.29	2.3	4.43	3.8	4.65	5.3	4.94	6.9	5.30	8.4	5.70	9.6	6.14	10.4	6.61	10.9	7.11
	225			1.0	4.29	2.3	4.43	3.8	4.65	5.4	4.94	7.0	5.30	8.5	5.70	9.7	6.14	10.6	6.61	11.1	7.11
230			1.0	4.29	2.3	4.43	3.9	4.65	5.5	4.94	7.1	5.30	8.6	5.70	9.8	6.14	10.8	6.61	11.2	7.11	
4	170					1.1	4.29	2.4	4.43	3.8	4.65	5.1	4.94	6.4	5.30	7.4	5.70	8.1	6.14	8.3	6.61
	175					1.1	4.29	2.4	4.43	3.8	4.65	5.2	4.94	6.5	5.30	7.5	5.70	8.2	6.14	8.4	6.61
	180					1.1	4.29	2.5	4.43	3.9	4.65	5.3	4.94	6.6	5.30	7.6	5.70	8.3	6.14	8.6	6.61
	185					1.1	4.29	2.5	4.43	3.9	4.65	5.4	4.94	6.7	5.30	7.7	5.70	8.5	6.14	8.8	6.61

Table C.23. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	190					1.2	4.29	2.5	4.43	4.0	4.65	5.4	4.94	6.8	5.30	7.9	5.70	8.6	6.14	8.9	6.61
	195					1.2	4.29	2.6	4.43	4.1	4.65	5.5	4.94	6.9	5.30	8.0	5.70	8.8	6.14	9.1	6.61
	200					1.2	4.29	2.6	4.43	4.1	4.65	5.6	4.94	7.0	5.30	8.1	5.70	8.9	6.14	9.3	6.61
	205					1.2	4.29	2.7	4.43	4.2	4.65	5.7	4.94	7.1	5.30	8.2	5.70	9.0	6.14	9.4	6.61
	210					1.3	4.29	2.7	4.43	4.2	4.65	5.8	4.94	7.2	5.30	8.3	5.70	9.2	6.14	9.6	6.61
	215					1.3	4.29	2.7	4.43	4.3	4.65	5.8	4.94	7.3	5.30	8.5	5.70	9.3	6.14	9.7	6.61
	220					1.3	4.29	2.8	4.43	4.4	4.65	5.9	4.94	7.4	5.30	8.6	5.70	9.5	6.14	9.9	6.61
	225					1.3	4.29	2.8	4.43	4.4	4.65	6.0	4.94	7.5	5.30	8.7	5.70	9.6	6.14	10.1	6.61
	230					1.3	4.29	2.9	4.43	4.5	4.65	6.1	4.94	7.6	5.30	8.8	5.70	9.8	6.14	10.2	6.61
8	170							1.3	4.29	2.7	4.43	4.0	4.65	5.3	4.94	6.3	5.30	7.0	5.70	7.2	6.14
	175							1.3	4.29	2.7	4.43	4.1	4.65	5.4	4.94	6.4	5.30	7.1	5.70	7.3	6.14
	180							1.3	4.29	2.7	4.43	4.2	4.65	5.4	4.94	6.5	5.30	7.2	5.70	7.5	6.14
	185							1.4	4.29	2.8	4.43	4.2	4.65	5.5	4.94	6.6	5.30	7.3	5.70	7.6	6.14
	190							1.4	4.29	2.8	4.43	4.3	4.65	5.6	4.94	6.7	5.30	7.5	5.70	7.8	6.14
	195							1.4	4.29	2.9	4.43	4.3	4.65	5.7	4.94	6.8	5.30	7.6	5.70	7.9	6.14
	200							1.4	4.29	2.9	4.43	4.4	4.65	5.8	4.94	6.9	5.30	7.7	5.70	8.0	6.14
	205							1.4	4.29	3.0	4.43	4.5	4.65	5.8	4.94	7.0	5.30	7.8	5.70	8.2	6.14
	210							1.5	4.29	3.0	4.43	4.5	4.65	5.9	4.94	7.1	5.30	7.9	5.70	8.3	6.14
	215							1.5	4.29	3.0	4.43	4.6	4.65	6.0	4.94	7.2	5.30	8.1	5.70	8.5	6.14
	220							1.5	4.29	3.1	4.43	4.6	4.65	6.1	4.94	7.3	5.30	8.2	5.70	8.6	6.14
	225							1.5	4.29	3.1	4.43	4.7	4.65	6.2	4.94	7.4	5.30	8.3	5.70	8.8	6.14
	230							1.5	4.29	3.2	4.43	4.8	4.65	6.2	4.94	7.5	5.30	8.4	5.70	8.9	6.14
12	170									1.4	4.29	2.7	4.43	4.0	4.65	5.0	4.94	5.7	5.30	5.9	5.70
	175									1.4	4.29	2.8	4.43	4.1	4.65	5.1	4.94	5.8	5.30	6.0	5.70
	180									1.4	4.29	2.8	4.43	4.1	4.65	5.2	4.94	5.9	5.30	6.2	5.70
	185									1.4	4.29	2.9	4.43	4.2	4.65	5.2	4.94	6.0	5.30	6.3	5.70
	190									1.5	4.29	2.9	4.43	4.2	4.65	5.3	4.94	6.1	5.30	6.4	5.70
	195									1.5	4.29	3.0	4.43	4.3	4.65	5.4	4.94	6.2	5.30	6.5	5.70
	200									1.5	4.29	3.0	4.43	4.4	4.65	5.5	4.94	6.3	5.30	6.6	5.70
	205									1.5	4.29	3.0	4.43	4.4	4.65	5.6	4.94	6.4	5.30	6.8	5.70
	210									1.5	4.29	3.1	4.43	4.5	4.65	5.7	4.94	6.5	5.30	6.9	5.70
	215									1.6	4.29	3.1	4.43	4.5	4.65	5.7	4.94	6.6	5.30	7.0	5.70
	220									1.6	4.29	3.2	4.43	4.6	4.65	5.8	4.94	6.7	5.30	7.1	5.70
	225									1.6	4.29	3.2	4.43	4.7	4.65	5.9	4.94	6.8	5.30	7.2	5.70

Table C.23. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4	8	12	16	20	24	28	32	36							
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	230						1.6	4.29	3.2	4.43	4.7	4.65	6.0	4.94	6.9	5.30	7.4	5.70	
16	170								1.4	4.29	2.6	4.43	3.6	4.65	4.3	4.94	4.5	5.30	
	175								1.4	4.29	2.7	4.43	3.7	4.65	4.4	4.94	4.6	5.30	
	180								1.4	4.29	2.7	4.43	3.7	4.65	4.5	4.94	4.7	5.30	
	185								1.4	4.29	2.7	4.43	3.8	4.65	4.5	4.94	4.8	5.30	
	190								1.5	4.29	2.8	4.43	3.9	4.65	4.6	4.94	4.9	5.30	
	195								1.5	4.29	2.8	4.43	3.9	4.65	4.7	4.94	5.0	5.30	
	200								1.5	4.29	2.9	4.43	4.0	4.65	4.8	4.94	5.1	5.30	
	205								1.5	4.29	2.9	4.43	4.1	4.65	4.9	4.94	5.2	5.30	
	210								1.5	4.29	2.9	4.43	4.1	4.65	5.0	4.94	5.3	5.30	
	215								1.6	4.29	3.0	4.43	4.2	4.65	5.0	4.94	5.4	5.30	
	220								1.6	4.29	3.0	4.43	4.2	4.65	5.1	4.94	5.5	5.30	
	225								1.6	4.29	3.1	4.43	4.3	4.65	5.2	4.94	5.6	5.30	
	230								1.6	4.29	3.1	4.43	4.4	4.65	5.3	4.94	5.7	5.30	
20	170										1.2	4.29	2.3	4.43	2.9	4.65	3.2	4.94	
	175										1.3	4.29	2.3	4.43	3.0	4.65	3.3	4.94	
	180										1.3	4.29	2.3	4.43	3.1	4.65	3.3	4.94	
	185										1.3	4.29	2.4	4.43	3.1	4.65	3.4	4.94	
	190										1.3	4.29	2.4	4.43	3.2	4.65	3.5	4.94	
	195										1.3	4.29	2.5	4.43	3.2	4.65	3.6	4.94	
	200										1.4	4.29	2.5	4.43	3.3	4.65	3.7	4.94	
	205										1.4	4.29	2.5	4.43	3.4	4.65	3.7	4.94	
	210										1.4	4.29	2.6	4.43	3.4	4.65	3.8	4.94	
	215										1.4	4.29	2.6	4.43	3.5	4.65	3.9	4.94	
	220										1.5	4.29	2.7	4.43	3.5	4.65	4.0	4.94	
	225										1.5	4.29	2.7	4.43	3.6	4.65	4.1	4.94	
	230										1.5	4.29	2.7	4.43	3.7	4.65	4.1	4.94	

Table C.24. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 4)	175	0.4	4.29	1.3	4.44	2.5	4.67	3.9	4.98	5.4	5.34	6.8	5.76	8.1	6.22	9.0	6.71	9.5	7.22	9.5	7.76
	180	0.4	4.29	1.3	4.44	2.5	4.67	3.9	4.98	5.4	5.34	6.8	5.76	8.1	6.22	9.0	6.71	9.6	7.22	9.5	7.76
	185	0.4	4.29	1.3	4.44	2.5	4.67	3.9	4.98	5.4	5.34	6.8	5.76	8.1	6.22	9.0	6.71	9.6	7.22	9.6	7.76
	190	0.4	4.29	1.3	4.44	2.5	4.67	3.9	4.98	5.4	5.34	6.9	5.76	8.1	6.22	9.1	6.71	9.6	7.22	9.6	7.76
	195	0.4	4.29	1.3	4.44	2.5	4.67	3.9	4.98	5.4	5.34	6.9	5.76	8.1	6.22	9.1	6.71	9.6	7.22	9.6	7.76
	200	0.4	4.29	1.3	4.44	2.5	4.67	4.0	4.98	5.4	5.34	6.9	5.76	8.1	6.22	9.1	6.71	9.6	7.22	9.6	7.76
	205	0.4	4.29	1.3	4.44	2.6	4.67	4.0	4.98	5.5	5.34	6.9	5.76	8.1	6.22	9.1	6.71	9.6	7.22	9.6	7.76
	210	0.5	4.29	1.3	4.44	2.6	4.67	4.0	4.98	5.5	5.34	6.9	5.76	8.2	6.22	9.1	6.71	9.7	7.22	9.7	7.76
	215	0.5	4.29	1.3	4.44	2.6	4.67	4.0	4.98	5.5	5.34	6.9	5.76	8.2	6.22	9.1	6.71	9.7	7.22	9.7	7.76
	220	0.5	4.29	1.4	4.44	2.6	4.67	4.0	4.98	5.5	5.34	6.9	5.76	8.2	6.22	9.2	6.71	9.7	7.22	9.7	7.76
	225	0.5	4.29	1.4	4.44	2.6	4.67	4.0	4.98	5.5	5.34	6.9	5.76	8.2	6.22	9.2	6.71	9.7	7.22	9.7	7.76
	230	0.5	4.29	1.4	4.44	2.6	4.67	4.0	4.98	5.5	5.34	7.0	5.76	8.2	6.22	9.2	6.71	9.7	7.22	9.7	7.76
235	0.5	4.29	1.4	4.44	2.6	4.67	4.0	4.98	5.5	5.34	7.0	5.76	8.2	6.22	9.2	6.71	9.8	7.22	9.8	7.76	
36 (Gd 4)	175			0.9	4.29	2.1	4.44	3.5	4.67	5.0	4.98	6.4	5.34	7.6	5.76	8.6	6.22	9.1	6.71	9.1	7.22
	180			0.9	4.29	2.1	4.44	3.5	4.67	5.0	4.98	6.4	5.34	7.6	5.76	8.6	6.22	9.1	6.71	9.1	7.22
	185			0.9	4.29	2.1	4.44	3.5	4.67	5.0	4.98	6.4	5.34	7.7	5.76	8.6	6.22	9.1	6.71	9.1	7.22
	190			0.9	4.29	2.1	4.44	3.5	4.67	5.0	4.98	6.4	5.34	7.7	5.76	8.6	6.22	9.2	6.71	9.1	7.22
	195			0.9	4.29	2.1	4.44	3.5	4.67	5.0	4.98	6.4	5.34	7.7	5.76	8.6	6.22	9.2	6.71	9.2	7.22
	200			0.9	4.29	2.1	4.44	3.5	4.67	5.0	4.98	6.4	5.34	7.7	5.76	8.7	6.22	9.2	6.71	9.2	7.22
	205			0.9	4.29	2.1	4.44	3.5	4.67	5.0	4.98	6.4	5.34	7.7	5.76	8.7	6.22	9.2	6.71	9.2	7.22
	210			0.9	4.29	2.1	4.44	3.5	4.67	5.0	4.98	6.5	5.34	7.7	5.76	8.7	6.22	9.2	6.71	9.2	7.22
	215			0.9	4.29	2.1	4.44	3.5	4.67	5.0	4.98	6.5	5.34	7.7	5.76	8.7	6.22	9.2	6.71	9.2	7.22
	220			0.9	4.29	2.1	4.44	3.5	4.67	5.0	4.98	6.5	5.34	7.7	5.76	8.7	6.22	9.3	6.71	9.3	7.22
	225			0.9	4.29	2.1	4.44	3.5	4.67	5.0	4.98	6.5	5.34	7.8	5.76	8.7	6.22	9.3	6.71	9.3	7.22
	230			0.9	4.29	2.1	4.44	3.6	4.67	5.1	4.98	6.5	5.34	7.8	5.76	8.7	6.22	9.3	6.71	9.3	7.22
235			0.9	4.29	2.1	4.44	3.6	4.67	5.1	4.98	6.5	5.34	7.8	5.76	8.8	6.22	9.3	6.71	9.3	7.22	
4	175					1.2	4.29	2.6	4.44	4.1	4.67	5.5	4.98	6.8	5.34	7.7	5.76	8.2	6.22	8.2	6.71
	180					1.2	4.29	2.6	4.44	4.1	4.67	5.5	4.98	6.8	5.34	7.7	5.76	8.2	6.22	8.2	6.71
	185					1.2	4.29	2.6	4.44	4.1	4.67	5.5	4.98	6.8	5.34	7.7	5.76	8.3	6.22	8.2	6.71
	190					1.2	4.29	2.6	4.44	4.1	4.67	5.5	4.98	6.8	5.34	7.7	5.76	8.3	6.22	8.3	6.71
	195					1.2	4.29	2.6	4.44	4.1	4.67	5.5	4.98	6.8	5.34	7.8	5.76	8.3	6.22	8.3	6.71
	200					1.2	4.29	2.6	4.44	4.1	4.67	5.5	4.98	6.8	5.34	7.8	5.76	8.3	6.22	8.3	6.71

Table C.24. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																				
		Prior Grd		Focal Grade																		
		36		4	8	12	16	20	24	28	32	36										
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	205				1.2	4.29	2.6	4.44	4.1	4.67	5.6	4.98	6.8	5.34	7.8	5.76	8.3	6.22	8.3	6.71		
	210				1.2	4.29	2.6	4.44	4.1	4.67	5.6	4.98	6.8	5.34	7.8	5.76	8.3	6.22	8.3	6.71		
	215				1.2	4.29	2.6	4.44	4.1	4.67	5.6	4.98	6.8	5.34	7.8	5.76	8.3	6.22	8.3	6.71		
	220				1.2	4.29	2.6	4.44	4.1	4.67	5.6	4.98	6.8	5.34	7.8	5.76	8.4	6.22	8.4	6.71		
	225				1.2	4.29	2.6	4.44	4.1	4.67	5.6	4.98	6.9	5.34	7.8	5.76	8.4	6.22	8.4	6.71		
	230				1.2	4.29	2.7	4.44	4.1	4.67	5.6	4.98	6.9	5.34	7.8	5.76	8.4	6.22	8.4	6.71		
	235				1.2	4.29	2.7	4.44	4.2	4.67	5.6	4.98	6.9	5.34	7.9	5.76	8.4	6.22	8.4	6.71		
8	175						1.4	4.29	2.9	4.44	4.3	4.67	5.5	4.98	6.5	5.34	7.0	5.76	7.0	6.22		
	180						1.4	4.29	2.9	4.44	4.3	4.67	5.6	4.98	6.5	5.34	7.0	5.76	7.0	6.22		
	185						1.4	4.29	2.9	4.44	4.3	4.67	5.6	4.98	6.5	5.34	7.0	5.76	7.0	6.22		
	190						1.4	4.29	2.9	4.44	4.3	4.67	5.6	4.98	6.5	5.34	7.1	5.76	7.0	6.22		
	195						1.4	4.29	2.9	4.44	4.3	4.67	5.6	4.98	6.5	5.34	7.1	5.76	7.1	6.22		
	200						1.4	4.29	2.9	4.44	4.3	4.67	5.6	4.98	6.6	5.34	7.1	5.76	7.1	6.22		
	205						1.4	4.29	2.9	4.44	4.3	4.67	5.6	4.98	6.6	5.34	7.1	5.76	7.1	6.22		
	210						1.4	4.29	2.9	4.44	4.3	4.67	5.6	4.98	6.6	5.34	7.1	5.76	7.1	6.22		
	215						1.4	4.29	2.9	4.44	4.4	4.67	5.6	4.98	6.6	5.34	7.1	5.76	7.1	6.22		
	220						1.4	4.29	2.9	4.44	4.4	4.67	5.6	4.98	6.6	5.34	7.1	5.76	7.1	6.22		
	225						1.4	4.29	2.9	4.44	4.4	4.67	5.6	4.98	6.6	5.34	7.1	5.76	7.1	6.22		
	230						1.4	4.29	2.9	4.44	4.4	4.67	5.6	4.98	6.6	5.34	7.2	5.76	7.2	6.22		
	235						1.4	4.3	2.9	4.4	4.4	4.7	5.7	4.98	6.6	5.34	7.2	5.76	7.2	6.22		
12	175								1.5	4.29	2.9	4.44	4.1	4.67	5.1	4.98	5.6	5.34	5.6	5.76		
	180								1.5	4.29	2.9	4.44	4.2	4.67	5.1	4.98	5.6	5.34	5.6	5.76		
	185								1.5	4.29	2.9	4.44	4.2	4.67	5.1	4.98	5.6	5.34	5.6	5.76		
	190								1.5	4.29	2.9	4.44	4.2	4.67	5.1	4.98	5.7	5.34	5.6	5.76		
	195								1.5	4.29	2.9	4.44	4.2	4.67	5.1	4.98	5.7	5.34	5.7	5.76		
	200								1.5	4.29	2.9	4.44	4.2	4.67	5.1	4.98	5.7	5.34	5.7	5.76		
	205								1.5	4.29	2.9	4.44	4.2	4.67	5.1	4.98	5.7	5.34	5.7	5.76		
	210								1.5	4.29	2.9	4.44	4.2	4.67	5.2	4.98	5.7	5.34	5.7	5.76		
	215								1.5	4.29	2.9	4.44	4.2	4.67	5.2	4.98	5.7	5.34	5.7	5.76		
	220								1.5	4.29	2.9	4.44	4.2	4.67	5.2	4.98	5.7	5.34	5.7	5.76		
	225								1.5	4.29	2.9	4.44	4.2	4.67	5.2	4.98	5.7	5.34	5.7	5.76		
	230								1.5	4.29	2.9	4.44	4.2	4.67	5.2	4.98	5.7	5.34	5.7	5.76		
	235								1.5	4.29	3.0	4.44	4.2	4.67	5.2	4.98	5.7	5.34	5.8	5.76		
16	180										1.4	4.29	2.7	4.44	3.6	4.67	4.2	4.98	4.1	5.34		

Table C.24. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	185											1.4	4.29	2.7	4.44	3.6	4.67	4.2	4.98	4.1	5.34
	190											1.4	4.29	2.7	4.44	3.6	4.67	4.2	4.98	4.2	5.34
	195											1.4	4.29	2.7	4.44	3.7	4.67	4.2	4.98	4.2	5.34
	200											1.4	4.29	2.7	4.44	3.7	4.67	4.2	4.98	4.2	5.34
	205											1.4	4.29	2.7	4.44	3.7	4.67	4.2	4.98	4.2	5.34
	210											1.4	4.29	2.7	4.44	3.7	4.67	4.2	4.98	4.2	5.34
	215											1.4	4.29	2.7	4.44	3.7	4.67	4.2	4.98	4.2	5.34
	220											1.4	4.29	2.7	4.44	3.7	4.67	4.2	4.98	4.2	5.34
	225											1.4	4.29	2.7	4.44	3.7	4.67	4.2	4.98	4.2	5.34
	230											1.5	4.29	2.7	4.44	3.7	4.67	4.2	4.98	4.2	5.34
	235											1.5	4.3	2.7	4.44	3.7	4.67	4.3	4.98	4.3	5.34
20	180													1.3	4.29	2.2	4.44	2.7	4.67	2.7	4.98
	185													1.3	4.29	2.2	4.44	2.7	4.67	2.7	4.98
	190													1.3	4.29	2.2	4.44	2.7	4.67	2.7	4.98
	195													1.3	4.29	2.2	4.44	2.8	4.67	2.7	4.98
	200													1.3	4.29	2.2	4.44	2.8	4.67	2.7	4.98
	205													1.3	4.29	2.2	4.44	2.8	4.67	2.8	4.98
	210													1.3	4.29	2.2	4.44	2.8	4.67	2.8	4.98
	215													1.3	4.29	2.2	4.44	2.8	4.67	2.8	4.98
	220													1.3	4.29	2.2	4.44	2.8	4.67	2.8	4.98
	225													1.3	4.29	2.2	4.44	2.8	4.67	2.8	4.98
	230													1.3	4.29	2.2	4.44	2.8	4.67	2.8	4.98
	235													1.3	4.29	2.3	4.44	2.8	4.67	2.8	4.98

Table C.25. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 6

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 5)	175	-0.2	4.30	0.1	4.45	0.8	4.70	1.7	5.03	2.7	5.42	3.7	5.87	4.8	6.35	5.6	6.87	6.2	7.41	6.4	7.98
	180	-0.2	4.30	0.1	4.45	0.8	4.70	1.7	5.03	2.7	5.42	3.8	5.87	4.8	6.35	5.6	6.87	6.2	7.41	6.4	7.98
	185	-0.2	4.30	0.1	4.45	0.8	4.70	1.7	5.03	2.7	5.42	3.8	5.87	4.8	6.35	5.6	6.87	6.2	7.41	6.5	7.98
	190	-0.2	4.30	0.1	4.45	0.8	4.70	1.7	5.03	2.7	5.42	3.8	5.87	4.8	6.35	5.7	6.87	6.3	7.41	6.5	7.98
	195	-0.2	4.30	0.2	4.45	0.8	4.70	1.7	5.03	2.7	5.42	3.8	5.87	4.8	6.35	5.7	6.87	6.3	7.41	6.5	7.98
	200	-0.2	4.30	0.2	4.45	0.8	4.70	1.7	5.03	2.7	5.42	3.8	5.87	4.9	6.35	5.7	6.87	6.3	7.41	6.5	7.98
	205	-0.1	4.30	0.2	4.45	0.8	4.70	1.7	5.03	2.8	5.42	3.8	5.87	4.9	6.35	5.7	6.87	6.3	7.41	6.6	7.98
	210	-0.1	4.30	0.2	4.45	0.8	4.70	1.7	5.03	2.8	5.42	3.9	5.87	4.9	6.35	5.8	6.87	6.4	7.41	6.6	7.98
	215	-0.1	4.30	0.2	4.45	0.8	4.70	1.7	5.03	2.8	5.42	3.9	5.87	4.9	6.35	5.8	6.87	6.4	7.41	6.6	7.98
	220	-0.1	4.30	0.2	4.45	0.8	4.70	1.8	5.03	2.8	5.42	3.9	5.87	4.9	6.35	5.8	6.87	6.4	7.41	6.7	7.98
	225	-0.1	4.30	0.2	4.45	0.9	4.70	1.8	5.03	2.8	5.42	3.9	5.87	5.0	6.35	5.8	6.87	6.4	7.41	6.7	7.98
	230	-0.1	4.30	0.2	4.45	0.9	4.70	1.8	5.03	2.8	5.42	3.9	5.87	5.0	6.35	5.8	6.87	6.5	7.41	6.7	7.98
	235	-0.1	4.30	0.2	4.45	0.9	4.70	1.8	5.03	2.8	5.42	3.9	5.87	5.0	6.35	5.9	6.87	6.5	7.41	6.7	7.98
240	-0.1	4.30	0.2	4.45	0.9	4.70	1.8	5.03	2.9	5.42	4.0	5.87	5.0	6.35	5.9	6.87	6.5	7.41	6.8	7.98	
36 (Gd 5)	175			0.3	4.30	0.9	4.45	1.8	4.70	2.8	5.03	3.9	5.42	4.9	5.87	5.8	6.35	6.3	6.87	6.6	7.41
	180			0.3	4.30	0.9	4.45	1.8	4.70	2.8	5.03	3.9	5.42	4.9	5.87	5.8	6.35	6.4	6.87	6.6	7.41
	185			0.3	4.30	0.9	4.45	1.8	4.70	2.9	5.03	3.9	5.42	5.0	5.87	5.8	6.35	6.4	6.87	6.6	7.41
	190			0.3	4.30	0.9	4.45	1.8	4.70	2.9	5.03	3.9	5.42	5.0	5.87	5.8	6.35	6.4	6.87	6.6	7.41
	195			0.3	4.30	1.0	4.45	1.8	4.70	2.9	5.03	4.0	5.42	5.0	5.87	5.8	6.35	6.4	6.87	6.7	7.41
	200			0.3	4.30	1.0	4.45	1.9	4.70	2.9	5.03	4.0	5.42	5.0	5.87	5.9	6.35	6.5	6.87	6.7	7.41
	205			0.3	4.30	1.0	4.45	1.9	4.70	2.9	5.03	4.0	5.42	5.0	5.87	5.9	6.35	6.5	6.87	6.7	7.41
	210			0.3	4.30	1.0	4.45	1.9	4.70	2.9	5.03	4.0	5.42	5.0	5.87	5.9	6.35	6.5	6.87	6.7	7.41
	215			0.3	4.30	1.0	4.45	1.9	4.70	2.9	5.03	4.0	5.42	5.1	5.87	5.9	6.35	6.5	6.87	6.8	7.41
	220			0.3	4.30	1.0	4.45	1.9	4.70	2.9	5.03	4.0	5.42	5.1	5.87	5.9	6.35	6.5	6.87	6.8	7.41
	225			0.3	4.30	1.0	4.45	1.9	4.70	3.0	5.03	4.0	5.42	5.1	5.87	6.0	6.35	6.6	6.87	6.8	7.41
	230			0.3	4.30	1.0	4.45	1.9	4.70	3.0	5.03	4.1	5.42	5.1	5.87	6.0	6.35	6.6	6.87	6.8	7.41
	235			0.3	4.30	1.0	4.45	1.9	4.70	3.0	5.03	4.1	5.42	5.1	5.87	6.0	6.35	6.6	6.87	6.9	7.41
240			0.3	4.30	1.0	4.45	1.9	4.70	3.0	5.03	4.1	5.42	5.1	5.87	6.0	6.35	6.6	6.87	6.9	7.41	
4	175					0.6	4.30	1.5	4.45	2.6	4.70	3.6	5.03	4.6	5.42	5.5	5.87	6.1	6.35	6.3	6.87
	180					0.6	4.30	1.5	4.45	2.6	4.70	3.6	5.03	4.6	5.42	5.5	5.87	6.1	6.35	6.3	6.87
	185					0.6	4.30	1.5	4.45	2.6	4.70	3.6	5.03	4.7	5.42	5.5	5.87	6.1	6.35	6.3	6.87
	190					0.6	4.30	1.5	4.45	2.6	4.70	3.7	5.03	4.7	5.42	5.5	5.87	6.1	6.35	6.3	6.87

Table C.25. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 6

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	195			0.7	4.30	1.5	4.45	2.6	4.70	3.7	5.03	4.7	5.42	5.5	5.87	6.1	6.35	6.4	6.87		
	200			0.7	4.30	1.6	4.45	2.6	4.70	3.7	5.03	4.7	5.42	5.6	5.87	6.2	6.35	6.4	6.87		
	205			0.7	4.30	1.6	4.45	2.6	4.70	3.7	5.03	4.7	5.42	5.6	5.87	6.2	6.35	6.4	6.87		
	210			0.7	4.30	1.6	4.45	2.6	4.70	3.7	5.03	4.7	5.42	5.6	5.87	6.2	6.35	6.4	6.87		
	215			0.7	4.30	1.6	4.45	2.6	4.70	3.7	5.03	4.7	5.42	5.6	5.87	6.2	6.35	6.5	6.87		
	220			0.7	4.30	1.6	4.45	2.6	4.70	3.7	5.03	4.8	5.42	5.6	5.87	6.2	6.35	6.5	6.87		
	225			0.7	4.30	1.6	4.45	2.6	4.70	3.7	5.03	4.8	5.42	5.6	5.87	6.3	6.35	6.5	6.87		
	230			0.7	4.30	1.6	4.45	2.6	4.70	3.7	5.03	4.8	5.42	5.7	5.87	6.3	6.35	6.5	6.87		
	235			0.7	4.30	1.6	4.45	2.7	4.70	3.8	5.03	4.8	5.42	5.7	5.87	6.3	6.35	6.5	6.87		
	240			0.7	4.30	1.6	4.45	2.7	4.70	3.8	5.03	4.8	5.42	5.7	5.87	6.3	6.35	6.6	6.87		
8	180					0.9	4.30	1.9	4.45	3.0	4.70	4.0	5.03	4.9	5.42	5.4	5.87	5.7	6.35		
	185					0.9	4.30	1.9	4.45	3.0	4.70	4.0	5.03	4.9	5.42	5.5	5.87	5.7	6.35		
	190					0.9	4.30	1.9	4.45	3.0	4.70	4.0	5.03	4.9	5.42	5.5	5.87	5.7	6.35		
	195					0.9	4.30	1.9	4.45	3.0	4.70	4.0	5.03	4.9	5.42	5.5	5.87	5.7	6.35		
	200					0.9	4.30	1.9	4.45	3.0	4.70	4.0	5.03	4.9	5.42	5.5	5.87	5.7	6.35		
	205					0.9	4.30	1.9	4.45	3.0	4.70	4.1	5.03	4.9	5.42	5.5	5.87	5.8	6.35		
	210					0.9	4.30	2.0	4.45	3.0	4.70	4.1	5.03	4.9	5.42	5.5	5.87	5.8	6.35		
	215					0.9	4.30	2.0	4.45	3.0	4.70	4.1	5.03	5.0	5.42	5.6	5.87	5.8	6.35		
	220					0.9	4.30	2.0	4.45	3.1	4.70	4.1	5.03	5.0	5.42	5.6	5.87	5.8	6.35		
	225					0.9	4.30	2.0	4.45	3.1	4.70	4.1	5.03	5.0	5.42	5.6	5.87	5.8	6.35		
	230					0.9	4.30	2.0	4.45	3.1	4.70	4.1	5.03	5.0	5.42	5.6	5.87	5.9	6.35		
	235					0.9	4.30	2.0	4.45	3.1	4.70	4.1	5.03	5.0	5.42	5.6	5.87	5.9	6.35		
	240					0.9	4.30	2.0	4.45	3.1	4.70	4.1	5.03	5.0	5.42	5.6	5.87	5.9	6.35		
12	180							1.0	4.30	2.1	4.45	3.1	4.70	4.0	5.03	4.6	5.42	4.8	5.87		
	185							1.0	4.30	2.1	4.45	3.1	4.70	4.0	5.03	4.6	5.42	4.8	5.87		
	190							1.0	4.30	2.1	4.45	3.1	4.70	4.0	5.03	4.6	5.42	4.8	5.87		
	195							1.0	4.30	2.1	4.45	3.1	4.70	4.0	5.03	4.6	5.42	4.8	5.87		
	200							1.0	4.30	2.1	4.45	3.2	4.70	4.0	5.03	4.6	5.42	4.8	5.87		
	210							1.1	4.30	2.1	4.45	3.2	4.70	4.0	5.03	4.6	5.42	4.9	5.87		
	215							1.1	4.30	2.1	4.45	3.2	4.70	4.0	5.03	4.7	5.42	4.9	5.87		
	220							1.1	4.30	2.2	4.45	3.2	4.70	4.1	5.03	4.7	5.42	4.9	5.87		
	225							1.1	4.30	2.2	4.45	3.2	4.70	4.1	5.03	4.7	5.42	4.9	5.87		
	230							1.1	4.30	2.2	4.45	3.2	4.70	4.1	5.03	4.7	5.42	4.9	5.87		
	235							1.1	4.30	2.2	4.45	3.2	4.70	4.1	5.03	4.7	5.42	5.0	5.87		

Table C.25. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 6

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	240									1.1	4.30	2.2	4.45	3.2	4.70	4.1	5.03	4.7	5.42	5.0	5.87
16	180											1.1	4.30	2.1	4.45	2.9	4.70	3.5	5.03	3.7	5.42
	185											1.1	4.30	2.1	4.45	2.9	4.70	3.5	5.03	3.8	5.42
	190											1.1	4.30	2.1	4.45	3.0	4.70	3.5	5.03	3.8	5.42
	195											1.1	4.30	2.1	4.45	3.0	4.70	3.6	5.03	3.8	5.42
	200											1.1	4.30	2.1	4.45	3.0	4.70	3.6	5.03	3.8	5.42
	205											1.1	4.30	2.1	4.45	3.0	4.70	3.6	5.03	3.8	5.42
	210											1.1	4.30	2.1	4.45	3.0	4.70	3.6	5.03	3.8	5.42
	215											1.1	4.30	2.1	4.45	3.0	4.70	3.6	5.03	3.8	5.42
	220											1.1	4.30	2.1	4.45	3.0	4.70	3.6	5.03	3.9	5.42
	225											1.1	4.30	2.1	4.45	3.0	4.70	3.6	5.03	3.9	5.42
	230											1.1	4.30	2.1	4.45	3.0	4.70	3.6	5.03	3.9	5.42
	235											1.1	4.30	2.2	4.45	3.0	4.70	3.6	5.03	3.9	5.42
240											1.1	4.30	2.2	4.45	3.0	4.70	3.7	5.03	3.9	5.42	
20	180													1.0	4.30	1.9	4.45	2.5	4.70	2.7	5.03
	185													1.0	4.30	1.9	4.45	2.5	4.70	2.7	5.03
	190													1.0	4.30	1.9	4.45	2.5	4.70	2.7	5.03
	195													1.0	4.30	1.9	4.45	2.5	4.70	2.7	5.03
	200													1.0	4.30	1.9	4.45	2.5	4.70	2.7	5.03
	205													1.0	4.30	1.9	4.45	2.5	4.70	2.7	5.03
	210													1.0	4.30	1.9	4.45	2.5	4.70	2.7	5.03
	215													1.0	4.30	1.9	4.45	2.5	4.70	2.8	5.03
	220													1.0	4.30	1.9	4.45	2.5	4.70	2.8	5.03
	225													1.0	4.30	1.9	4.45	2.5	4.70	2.8	5.03
	230													1.0	4.30	1.9	4.45	2.5	4.70	2.8	5.03
	235													1.0	4.30	1.9	4.45	2.5	4.70	2.8	5.03
240													1.1	4.30	1.9	4.45	2.6	4.70	2.8	5.03	

Table C.26. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 7

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 6)	180	0.2	4.29	0.5	4.45	1.1	4.69	1.8	5.01	2.5	5.39	3.2	5.82	4.0	6.29	4.6	6.80	5.0	7.33	5.3	7.88
	185	0.2	4.29	0.6	4.45	1.1	4.69	1.8	5.01	2.5	5.39	3.3	5.82	4.0	6.29	4.7	6.80	5.1	7.33	5.4	7.88
	190	0.2	4.29	0.6	4.45	1.1	4.69	1.8	5.01	2.6	5.39	3.4	5.82	4.1	6.29	4.7	6.80	5.2	7.33	5.5	7.88
	195	0.2	4.29	0.6	4.45	1.2	4.69	1.9	5.01	2.6	5.39	3.4	5.82	4.2	6.29	4.8	6.80	5.3	7.33	5.6	7.88
	200	0.2	4.29	0.6	4.45	1.2	4.69	1.9	5.01	2.7	5.39	3.5	5.82	4.2	6.29	4.9	6.80	5.4	7.33	5.7	7.88
	205	0.2	4.29	0.6	4.45	1.2	4.69	2.0	5.01	2.7	5.39	3.5	5.82	4.3	6.29	5.0	6.80	5.5	7.33	5.8	7.88
	210	0.2	4.29	0.7	4.45	1.3	4.69	2.0	5.01	2.8	5.39	3.6	5.82	4.4	6.29	5.0	6.80	5.6	7.33	5.9	7.88
	215	0.2	4.29	0.7	4.45	1.3	4.69	2.0	5.01	2.8	5.39	3.6	5.82	4.4	6.29	5.1	6.80	5.7	7.33	6.0	7.88
	220	0.2	4.29	0.7	4.45	1.3	4.69	2.1	5.01	2.9	5.39	3.7	5.82	4.5	6.29	5.2	6.80	5.7	7.33	6.1	7.88
	225	0.2	4.29	0.7	4.45	1.3	4.69	2.1	5.01	2.9	5.39	3.8	5.82	4.6	6.29	5.3	6.80	5.8	7.33	6.2	7.88
	230	0.3	4.29	0.7	4.45	1.4	4.69	2.1	5.01	3.0	5.39	3.8	5.82	4.6	6.29	5.3	6.80	5.9	7.33	6.3	7.88
	235	0.3	4.29	0.8	4.45	1.4	4.69	2.2	5.01	3.0	5.39	3.9	5.82	4.7	6.29	5.4	6.80	6.0	7.33	6.4	7.88
	240	0.3	4.29	0.8	4.45	1.4	4.69	2.2	5.01	3.1	5.39	3.9	5.82	4.8	6.29	5.5	6.80	6.1	7.33	6.5	7.88
245	0.3	4.29	0.8	4.45	1.5	4.69	2.3	5.01	3.1	5.39	4.0	5.82	4.8	6.29	5.6	6.80	6.2	7.33	6.6	7.88	
36 (Gd 6)	180			0.4	4.29	0.9	4.45	1.6	4.69	2.3	5.01	3.1	5.39	3.8	5.82	4.4	6.29	4.9	6.80	5.2	7.33
	185			0.4	4.29	1.0	4.45	1.6	4.69	2.4	5.01	3.1	5.39	3.9	5.82	4.5	6.29	5.0	6.80	5.3	7.33
	190			0.4	4.29	1.0	4.45	1.7	4.69	2.4	5.01	3.2	5.39	3.9	5.82	4.6	6.29	5.0	6.80	5.3	7.33
	195			0.4	4.29	1.0	4.45	1.7	4.69	2.5	5.01	3.2	5.39	4.0	5.82	4.6	6.29	5.1	6.80	5.4	7.33
	200			0.4	4.29	1.0	4.45	1.7	4.69	2.5	5.01	3.3	5.39	4.0	5.82	4.7	6.29	5.2	6.80	5.5	7.33
	205			0.4	4.29	1.0	4.45	1.7	4.69	2.5	5.01	3.3	5.39	4.1	5.82	4.8	6.29	5.3	6.80	5.6	7.33
	210			0.4	4.29	1.0	4.45	1.8	4.69	2.6	5.01	3.4	5.39	4.1	5.82	4.8	6.29	5.4	6.80	5.7	7.33
	215			0.5	4.29	1.1	4.45	1.8	4.69	2.6	5.01	3.4	5.39	4.2	5.82	4.9	6.29	5.4	6.80	5.8	7.33
	220			0.5	4.29	1.1	4.45	1.8	4.69	2.6	5.01	3.5	5.39	4.3	5.82	5.0	6.29	5.5	6.80	5.9	7.33
	225			0.5	4.29	1.1	4.45	1.9	4.69	2.7	5.01	3.5	5.39	4.3	5.82	5.0	6.29	5.6	6.80	5.9	7.33
	230			0.5	4.29	1.1	4.45	1.9	4.69	2.7	5.01	3.6	5.39	4.4	5.82	5.1	6.29	5.7	6.80	6.0	7.33
	235			0.5	4.29	1.1	4.45	1.9	4.69	2.8	5.01	3.6	5.39	4.4	5.82	5.2	6.29	5.7	6.80	6.1	7.33
	240			0.5	4.29	1.2	4.45	1.9	4.69	2.8	5.01	3.7	5.39	4.5	5.82	5.2	6.29	5.8	6.80	6.2	7.33
245			0.5	4.29	1.2	4.45	2.0	4.69	2.8	5.01	3.7	5.39	4.5	5.82	5.3	6.29	5.9	6.80	6.3	7.33	
4	180					0.6	4.29	1.2	4.45	2.0	4.69	2.7	5.01	3.4	5.39	4.0	5.82	4.5	6.29	4.8	6.80
	185					0.6	4.29	1.2	4.45	2.0	4.69	2.7	5.01	3.5	5.39	4.1	5.82	4.6	6.29	4.9	6.80
	190					0.6	4.29	1.3	4.45	2.0	4.69	2.8	5.01	3.5	5.39	4.2	5.82	4.6	6.29	4.9	6.80
	195					0.6	4.29	1.3	4.45	2.0	4.69	2.8	5.01	3.6	5.39	4.2	5.82	4.7	6.29	5.0	6.80

Table C.26. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 7

Start Inst. Wk	Start RIT	Ending Instructional Weeks																				
		Prior Grd		Focal Grade																		
		36		4	8	12	16	20	24	28	32	36										
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	200				0.6	4.29	1.3	4.45	2.1	4.69	2.9	5.01	3.6	5.39	4.3	5.82	4.8	6.29	5.1	6.80		
	205				0.6	4.29	1.3	4.45	2.1	4.69	2.9	5.01	3.7	5.39	4.3	5.82	4.8	6.29	5.2	6.80		
	210				0.6	4.29	1.3	4.45	2.1	4.69	2.9	5.01	3.7	5.39	4.4	5.82	4.9	6.29	5.3	6.80		
	215				0.6	4.29	1.4	4.45	2.2	4.69	3.0	5.01	3.8	5.39	4.4	5.82	5.0	6.29	5.3	6.80		
	220				0.6	4.29	1.4	4.45	2.2	4.69	3.0	5.01	3.8	5.39	4.5	5.82	5.1	6.29	5.4	6.80		
	225				0.6	4.29	1.4	4.45	2.2	4.69	3.1	5.01	3.9	5.39	4.6	5.82	5.1	6.29	5.5	6.80		
	230				0.7	4.29	1.4	4.45	2.2	4.69	3.1	5.01	3.9	5.39	4.6	5.82	5.2	6.29	5.6	6.80		
	235				0.7	4.29	1.4	4.45	2.3	4.69	3.1	5.01	3.9	5.39	4.7	5.82	5.3	6.29	5.6	6.80		
	240				0.7	4.29	1.5	4.45	2.3	4.69	3.2	5.01	4.0	5.39	4.7	5.82	5.3	6.29	5.7	6.80		
	245				0.7	4.29	1.5	4.45	2.3	4.69	3.2	5.01	4.0	5.39	4.8	5.82	5.4	6.29	5.8	6.80		
8	180						0.7	4.29	1.4	4.45	2.2	4.69	2.9	5.01	3.5	5.39	4.0	5.82	4.2	6.29		
	185						0.7	4.29	1.4	4.45	2.2	4.69	2.9	5.01	3.5	5.39	4.0	5.82	4.3	6.29		
	190						0.7	4.29	1.4	4.45	2.2	4.69	2.9	5.01	3.6	5.39	4.1	5.82	4.4	6.29		
	195						0.7	4.29	1.5	4.45	2.2	4.69	3.0	5.01	3.6	5.39	4.1	5.82	4.4	6.29		
	200						0.7	4.29	1.5	4.45	2.3	4.69	3.0	5.01	3.7	5.39	4.2	5.82	4.5	6.29		
	205						0.7	4.29	1.5	4.45	2.3	4.69	3.1	5.01	3.7	5.39	4.3	5.82	4.6	6.29		
	210						0.7	4.29	1.5	4.45	2.3	4.69	3.1	5.01	3.8	5.39	4.3	5.82	4.6	6.29		
	215						0.7	4.29	1.5	4.45	2.4	4.69	3.1	5.01	3.8	5.39	4.4	5.82	4.7	6.29		
	220						0.8	4.29	1.6	4.45	2.4	4.69	3.2	5.01	3.9	5.39	4.4	5.82	4.8	6.29		
	225						0.8	4.29	1.6	4.45	2.4	4.69	3.2	5.01	3.9	5.39	4.5	5.82	4.8	6.29		
	230						0.8	4.29	1.6	4.45	2.4	4.69	3.3	5.01	4.0	5.39	4.5	5.82	4.9	6.29		
	235						0.8	4.29	1.6	4.45	2.5	4.69	3.3	5.01	4.0	5.39	4.6	5.82	5.0	6.29		
	240						0.8	4.29	1.6	4.45	2.5	4.69	3.3	5.01	4.1	5.39	4.7	5.82	5.0	6.29		
	245						0.8	4.29	1.7	4.45	2.5	4.69	3.4	5.01	4.1	5.39	4.7	5.82	5.1	6.29		
12	180							0.7	4.29	1.5	4.45	2.2	4.69	2.8	5.01	3.3	5.39	3.6	5.82			
	185							0.7	4.29	1.5	4.45	2.2	4.69	2.9	5.01	3.3	5.39	3.6	5.82			
	190							0.8	4.29	1.5	4.45	2.3	4.69	2.9	5.01	3.4	5.39	3.7	5.82			
	195							0.8	4.29	1.5	4.45	2.3	4.69	2.9	5.01	3.4	5.39	3.7	5.82			
	200							0.8	4.29	1.6	4.45	2.3	4.69	3.0	5.01	3.5	5.39	3.8	5.82			
	205							0.8	4.29	1.6	4.45	2.3	4.69	3.0	5.01	3.5	5.39	3.9	5.82			
	210							0.8	4.29	1.6	4.45	2.4	4.69	3.0	5.01	3.6	5.39	3.9	5.82			
	215							0.8	4.29	1.6	4.45	2.4	4.69	3.1	5.01	3.6	5.39	4.0	5.82			
	220							0.8	4.29	1.6	4.45	2.4	4.69	3.1	5.01	3.7	5.39	4.0	5.82			
	225							0.8	4.29	1.7	4.45	2.5	4.69	3.2	5.01	3.7	5.39	4.1	5.82			

Table C.26. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 7

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	230							0.8	4.29	1.7	4.45	2.5	4.69	3.2	5.01	3.8	5.39	4.1	5.82		
	235							0.8	4.29	1.7	4.45	2.5	4.69	3.2	5.01	3.8	5.39	4.2	5.82		
	240							0.9	4.29	1.7	4.45	2.5	4.69	3.3	5.01	3.9	5.39	4.3	5.82		
	245							0.9	4.29	1.7	4.45	2.6	4.69	3.3	5.01	3.9	5.39	4.3	5.82		
16	180									0.8	4.29	1.5	4.45	2.1	4.69	2.6	5.01	2.8	5.39		
	185									0.8	4.29	1.5	4.45	2.1	4.69	2.6	5.01	2.9	5.39		
	190									0.8	4.29	1.5	4.45	2.1	4.69	2.6	5.01	2.9	5.39		
	195									0.8	4.29	1.5	4.45	2.2	4.69	2.7	5.01	3.0	5.39		
	200									0.8	4.29	1.5	4.45	2.2	4.69	2.7	5.01	3.0	5.39		
	205									0.8	4.29	1.6	4.45	2.2	4.69	2.8	5.01	3.1	5.39		
	210									0.8	4.29	1.6	4.45	2.3	4.69	2.8	5.01	3.1	5.39		
	215									0.8	4.29	1.6	4.45	2.3	4.69	2.8	5.01	3.2	5.39		
	220									0.8	4.29	1.6	4.45	2.3	4.69	2.9	5.01	3.2	5.39		
	225									0.8	4.29	1.6	4.45	2.3	4.69	2.9	5.01	3.3	5.39		
	230									0.8	4.29	1.7	4.45	2.4	4.69	2.9	5.01	3.3	5.39		
	235									0.9	4.29	1.7	4.45	2.4	4.69	3.0	5.01	3.4	5.39		
	240									0.9	4.29	1.7	4.45	2.4	4.69	3.0	5.01	3.4	5.39		
	245									0.9	4.29	1.7	4.45	2.5	4.69	3.1	5.01	3.5	5.39		
20	180											0.7	4.29	1.3	4.45	1.8	4.69	2.1	5.01		
	185											0.7	4.29	1.4	4.45	1.8	4.69	2.1	5.01		
	190											0.7	4.29	1.4	4.45	1.9	4.69	2.2	5.01		
	195											0.7	4.29	1.4	4.45	1.9	4.69	2.2	5.01		
	200											0.8	4.29	1.4	4.45	1.9	4.69	2.2	5.01		
	205											0.8	4.29	1.4	4.45	2.0	4.69	2.3	5.01		
	210											0.8	4.29	1.4	4.45	2.0	4.69	2.3	5.01		
	215											0.8	4.29	1.5	4.45	2.0	4.69	2.4	5.01		
	220											0.8	4.29	1.5	4.45	2.0	4.69	2.4	5.01		
	225											0.8	4.29	1.5	4.45	2.1	4.69	2.4	5.01		
	230											0.8	4.29	1.5	4.45	2.1	4.69	2.5	5.01		
	235											0.8	4.29	1.5	4.45	2.1	4.69	2.5	5.01		
	240											0.8	4.29	1.6	4.45	2.2	4.69	2.5	5.01		
	245											0.8	4.29	1.6	4.45	2.2	4.69	2.6	5.01		

Table C.27. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 7)	185	0.3	4.31	0.9	4.49	1.5	4.79	2.3	5.18	3.1	5.63	3.8	6.15	4.5	6.70	5.1	7.29	5.4	7.90	5.6	8.54
	190	0.3	4.31	0.9	4.49	1.5	4.79	2.3	5.18	3.1	5.63	3.8	6.15	4.5	6.70	5.1	7.29	5.4	7.90	5.5	8.54
	195	0.3	4.31	0.8	4.49	1.5	4.79	2.3	5.18	3.1	5.63	3.8	6.15	4.5	6.70	5.0	7.29	5.4	7.90	5.5	8.54
	200	0.3	4.31	0.8	4.49	1.5	4.79	2.3	5.18	3.0	5.63	3.8	6.15	4.5	6.70	5.0	7.29	5.4	7.90	5.5	8.54
	205	0.3	4.31	0.8	4.49	1.5	4.79	2.3	5.18	3.0	5.63	3.8	6.15	4.5	6.70	5.0	7.29	5.4	7.90	5.5	8.54
	210	0.3	4.31	0.8	4.49	1.5	4.79	2.2	5.18	3.0	5.63	3.8	6.15	4.5	6.70	5.0	7.29	5.3	7.90	5.4	8.54
	215	0.3	4.31	0.8	4.49	1.5	4.79	2.2	5.18	3.0	5.63	3.8	6.15	4.4	6.70	5.0	7.29	5.3	7.90	5.4	8.54
	220	0.3	4.31	0.8	4.49	1.5	4.79	2.2	5.18	3.0	5.63	3.7	6.15	4.4	6.70	5.0	7.29	5.3	7.90	5.4	8.54
	225	0.3	4.31	0.8	4.49	1.5	4.79	2.2	5.18	3.0	5.63	3.7	6.15	4.4	6.70	4.9	7.29	5.3	7.90	5.4	8.54
	230	0.3	4.31	0.8	4.49	1.5	4.79	2.2	5.18	3.0	5.63	3.7	6.15	4.4	6.70	4.9	7.29	5.3	7.90	5.3	8.54
	235	0.3	4.31	0.8	4.49	1.5	4.79	2.2	5.18	3.0	5.63	3.7	6.15	4.4	6.70	4.9	7.29	5.2	7.90	5.3	8.54
	240	0.3	4.31	0.8	4.49	1.5	4.79	2.2	5.18	3.0	5.63	3.7	6.15	4.4	6.70	4.9	7.29	5.2	7.90	5.3	8.54
	245	0.3	4.31	0.8	4.49	1.4	4.79	2.2	5.18	2.9	5.63	3.7	6.15	4.3	6.70	4.9	7.29	5.2	7.90	5.3	8.54
250	0.3	4.31	0.8	4.49	1.4	4.79	2.2	5.18	2.9	5.63	3.7	6.15	4.3	6.70	4.8	7.29	5.2	7.90	5.2	8.54	
36 (Gd 7)	185			0.5	4.31	1.2	4.49	2.0	4.79	2.8	5.18	3.5	5.63	4.2	6.15	4.8	6.70	5.1	7.29	5.2	7.90
	190			0.5	4.31	1.2	4.49	2.0	4.79	2.7	5.18	3.5	5.63	4.2	6.15	4.7	6.70	5.1	7.29	5.2	7.90
	195			0.5	4.31	1.2	4.49	1.9	4.79	2.7	5.18	3.5	5.63	4.2	6.15	4.7	6.70	5.1	7.29	5.2	7.90
	200			0.5	4.31	1.2	4.49	1.9	4.79	2.7	5.18	3.5	5.63	4.2	6.15	4.7	6.70	5.1	7.29	5.2	7.90
	205			0.5	4.31	1.2	4.49	1.9	4.79	2.7	5.18	3.5	5.63	4.1	6.15	4.7	6.70	5.0	7.29	5.1	7.90
	210			0.5	4.31	1.2	4.49	1.9	4.79	2.7	5.18	3.5	5.63	4.1	6.15	4.7	6.70	5.0	7.29	5.1	7.90
	215			0.5	4.31	1.2	4.49	1.9	4.79	2.7	5.18	3.4	5.63	4.1	6.15	4.7	6.70	5.0	7.29	5.1	7.90
	220			0.5	4.31	1.2	4.49	1.9	4.79	2.7	5.18	3.4	5.63	4.1	6.15	4.6	6.70	5.0	7.29	5.1	7.90
	225			0.5	4.31	1.2	4.49	1.9	4.79	2.7	5.18	3.4	5.63	4.1	6.15	4.6	6.70	5.0	7.29	5.1	7.90
	230			0.5	4.31	1.2	4.49	1.9	4.79	2.7	5.18	3.4	5.63	4.1	6.15	4.6	6.70	4.9	7.29	5.0	7.90
	235			0.5	4.31	1.2	4.49	1.9	4.79	2.7	5.18	3.4	5.63	4.1	6.15	4.6	6.70	4.9	7.29	5.0	7.90
	240			0.5	4.31	1.2	4.49	1.9	4.79	2.6	5.18	3.4	5.63	4.1	6.15	4.6	6.70	4.9	7.29	5.0	7.90
	245			0.5	4.31	1.1	4.49	1.9	4.79	2.6	5.18	3.4	5.63	4.0	6.15	4.6	6.70	4.9	7.29	5.0	7.90
250			0.5	4.31	1.1	4.49	1.9	4.79	2.6	5.18	3.4	5.63	4.0	6.15	4.5	6.70	4.9	7.29	5.0	7.90	
4	185					0.7	4.31	1.4	4.49	2.2	4.79	3.0	5.18	3.7	5.63	4.2	6.15	4.6	6.70	4.7	7.29
	190					0.7	4.31	1.4	4.49	2.2	4.79	3.0	5.18	3.7	5.63	4.2	6.15	4.6	6.70	4.7	7.29
	195					0.7	4.31	1.4	4.49	2.2	4.79	3.0	5.18	3.7	5.63	4.2	6.15	4.6	6.70	4.7	7.29
	200					0.7	4.31	1.4	4.49	2.2	4.79	3.0	5.18	3.6	5.63	4.2	6.15	4.5	6.70	4.6	7.29

Table C.27. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																				
		Prior Grd		Focal Grade																		
		36		4	8	12	16	20	24	28	32	36										
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	205				0.7	4.31	1.4	4.49	2.2	4.79	3.0	5.18	3.6	5.63	4.2	6.15	4.5	6.70	4.6	7.29		
	210				0.7	4.31	1.4	4.49	2.2	4.79	2.9	5.18	3.6	5.63	4.2	6.15	4.5	6.70	4.6	7.29		
	215				0.7	4.31	1.4	4.49	2.2	4.79	2.9	5.18	3.6	5.63	4.1	6.15	4.5	6.70	4.6	7.29		
	220				0.7	4.31	1.4	4.49	2.2	4.79	2.9	5.18	3.6	5.63	4.1	6.15	4.5	6.70	4.6	7.29		
	225				0.7	4.31	1.4	4.49	2.2	4.79	2.9	5.18	3.6	5.63	4.1	6.15	4.5	6.70	4.5	7.29		
	230				0.7	4.31	1.4	4.49	2.2	4.79	2.9	5.18	3.6	5.63	4.1	6.15	4.4	6.70	4.5	7.29		
	235				0.7	4.31	1.4	4.49	2.2	4.79	2.9	5.18	3.6	5.63	4.1	6.15	4.4	6.70	4.5	7.29		
	240				0.7	4.31	1.4	4.49	2.1	4.79	2.9	5.18	3.5	5.63	4.1	6.15	4.4	6.70	4.5	7.29		
	245				0.6	4.31	1.4	4.49	2.1	4.79	2.9	5.18	3.5	5.63	4.1	6.15	4.4	6.70	4.5	7.29		
	250				0.6	4.31	1.4	4.49	2.1	4.79	2.9	5.18	3.5	5.63	4.0	6.15	4.4	6.70	4.5	7.29		
8	185						0.8	4.31	1.6	4.49	2.3	4.79	3.0	5.18	3.6	5.63	3.9	6.15	4.0	6.70		
	190						0.8	4.31	1.5	4.49	2.3	4.79	3.0	5.18	3.5	5.63	3.9	6.15	4.0	6.70		
	195						0.8	4.31	1.5	4.49	2.3	4.79	3.0	5.18	3.5	5.63	3.9	6.15	4.0	6.70		
	200						0.8	4.31	1.5	4.49	2.3	4.79	3.0	5.18	3.5	5.63	3.9	6.15	4.0	6.70		
	205						0.8	4.31	1.5	4.49	2.3	4.79	3.0	5.18	3.5	5.63	3.9	6.15	4.0	6.70		
	210						0.8	4.31	1.5	4.49	2.3	4.79	3.0	5.18	3.5	5.63	3.8	6.15	3.9	6.70		
	215						0.7	4.31	1.5	4.49	2.3	4.79	3.0	5.18	3.5	5.63	3.8	6.15	3.9	6.70		
	220						0.7	4.31	1.5	4.49	2.3	4.79	2.9	5.18	3.5	5.63	3.8	6.15	3.9	6.70		
	225						0.7	4.31	1.5	4.49	2.3	4.79	2.9	5.18	3.5	5.63	3.8	6.15	3.9	6.70		
	230						0.7	4.31	1.5	4.49	2.3	4.79	2.9	5.18	3.5	5.63	3.8	6.15	3.9	6.70		
	235						0.7	4.31	1.5	4.49	2.3	4.79	2.9	5.18	3.4	5.63	3.8	6.15	3.9	6.70		
	240						0.7	4.31	1.5	4.49	2.2	4.79	2.9	5.18	3.4	5.63	3.8	6.15	3.8	6.70		
	245						0.7	4.31	1.5	4.49	2.2	4.79	2.9	5.18	3.4	5.63	3.7	6.15	3.8	6.70		
	250						0.7	4.31	1.5	4.49	2.2	4.79	2.9	5.18	3.4	5.63	3.7	6.15	3.8	6.70		
12	185								0.8	4.31	1.6	4.49	2.2	4.79	2.8	5.18	3.2	5.63	3.3	6.15		
	190								0.8	4.31	1.6	4.49	2.2	4.79	2.8	5.18	3.1	5.63	3.3	6.15		
	195								0.8	4.31	1.6	4.49	2.2	4.79	2.8	5.18	3.1	5.63	3.2	6.15		
	200								0.8	4.31	1.5	4.49	2.2	4.79	2.8	5.18	3.1	5.63	3.2	6.15		
	205								0.8	4.31	1.5	4.49	2.2	4.79	2.8	5.18	3.1	5.63	3.2	6.15		
	210								0.8	4.31	1.5	4.49	2.2	4.79	2.8	5.18	3.1	5.63	3.2	6.15		
	215								0.8	4.31	1.5	4.49	2.2	4.79	2.7	5.18	3.1	5.63	3.2	6.15		
	220								0.8	4.31	1.5	4.49	2.2	4.79	2.7	5.18	3.1	5.63	3.2	6.15		
	225								0.8	4.31	1.5	4.49	2.2	4.79	2.7	5.18	3.1	5.63	3.2	6.15		
	230								0.8	4.31	1.5	4.49	2.2	4.79	2.7	5.18	3.1	5.63	3.1	6.15		

Table C.27. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	235							0.8	4.31	1.5	4.49	2.2	4.79	2.7	5.18	3.0	5.63	3.1	6.15		
	240							0.8	4.31	1.5	4.49	2.2	4.79	2.7	5.18	3.0	5.63	3.1	6.15		
	245							0.8	4.31	1.5	4.49	2.2	4.79	2.7	5.18	3.0	5.63	3.1	6.15		
	250							0.8	4.31	1.5	4.49	2.2	4.79	2.7	5.18	3.0	5.63	3.1	6.15		
16	185									0.8	4.31	1.5	4.49	2.0	4.79	2.4	5.18	2.5	5.63		
	190									0.8	4.31	1.5	4.49	2.0	4.79	2.4	5.18	2.5	5.63		
	195									0.8	4.31	1.4	4.49	2.0	4.79	2.3	5.18	2.5	5.63		
	200									0.8	4.31	1.4	4.49	2.0	4.79	2.3	5.18	2.4	5.63		
	205									0.8	4.31	1.4	4.49	2.0	4.79	2.3	5.18	2.4	5.63		
	210									0.8	4.31	1.4	4.49	2.0	4.79	2.3	5.18	2.4	5.63		
	215									0.8	4.31	1.4	4.49	2.0	4.79	2.3	5.18	2.4	5.63		
	220									0.8	4.31	1.4	4.49	2.0	4.79	2.3	5.18	2.4	5.63		
	225									0.8	4.31	1.4	4.49	2.0	4.79	2.3	5.18	2.4	5.63		
	230									0.8	4.31	1.4	4.49	1.9	4.79	2.3	5.18	2.4	5.63		
	235									0.7	4.31	1.4	4.49	1.9	4.79	2.3	5.18	2.4	5.63		
	240									0.7	4.31	1.4	4.49	1.9	4.79	2.3	5.18	2.3	5.63		
	245									0.7	4.31	1.4	4.49	1.9	4.79	2.3	5.18	2.3	5.63		
	250									0.7	4.31	1.4	4.49	1.9	4.79	2.2	5.18	2.3	5.63		
20	185												0.7	4.31	1.2	4.49	1.6	4.79	1.7	5.18	
	190												0.7	4.31	1.2	4.49	1.6	4.79	1.7	5.18	
	195												0.7	4.31	1.2	4.49	1.6	4.79	1.7	5.18	
	200												0.7	4.31	1.2	4.49	1.6	4.79	1.7	5.18	
	205												0.7	4.31	1.2	4.49	1.6	4.79	1.7	5.18	
	210												0.7	4.31	1.2	4.49	1.6	4.79	1.7	5.18	
	215												0.7	4.31	1.2	4.49	1.6	4.79	1.7	5.18	
	220												0.7	4.31	1.2	4.49	1.6	4.79	1.6	5.18	
	225												0.7	4.31	1.2	4.49	1.5	4.79	1.6	5.18	
	230												0.7	4.31	1.2	4.49	1.5	4.79	1.6	5.18	
	235												0.7	4.31	1.2	4.49	1.5	4.79	1.6	5.18	
	240												0.7	4.31	1.2	4.49	1.5	4.79	1.6	5.18	
	245												0.7	4.31	1.2	4.49	1.5	4.79	1.6	5.18	
	250												0.7	4.31	1.2	4.49	1.5	4.79	1.6	5.18	

Table C.28. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 8)	185	-0.1	4.34	-0.1	4.62	0.1	5.04	0.3	5.59	0.6	6.22	0.9	6.91	1.3	7.65	1.5	8.42	1.7	9.21	1.9	10.03
	190	-0.1	4.34	-0.1	4.62	0.1	5.04	0.4	5.59	0.7	6.22	1.0	6.91	1.3	7.65	1.6	8.42	1.8	9.21	1.9	10.03
	195	-0.1	4.34	-0.1	4.62	0.1	5.04	0.4	5.59	0.7	6.22	1.0	6.91	1.4	7.65	1.7	8.42	1.9	9.21	2.0	10.03
	200	-0.1	4.34	0.0	4.62	0.1	5.04	0.4	5.59	0.7	6.22	1.1	6.91	1.4	7.65	1.7	8.42	1.9	9.21	2.1	10.03
	205	-0.1	4.34	0.0	4.62	0.2	5.04	0.4	5.59	0.8	6.22	1.1	6.91	1.5	7.65	1.8	8.42	2.0	9.21	2.1	10.03
	210	-0.1	4.34	0.0	4.62	0.2	5.04	0.5	5.59	0.8	6.22	1.2	6.91	1.5	7.65	1.8	8.42	2.1	9.21	2.2	10.03
	215	-0.1	4.34	0.0	4.62	0.2	5.04	0.5	5.59	0.8	6.22	1.2	6.91	1.5	7.65	1.9	8.42	2.1	9.21	2.3	10.03
	220	-0.1	4.34	0.0	4.62	0.2	5.04	0.5	5.59	0.9	6.22	1.2	6.91	1.6	7.65	1.9	8.42	2.2	9.21	2.3	10.03
	225	-0.1	4.34	0.0	4.62	0.2	5.04	0.5	5.59	0.9	6.22	1.3	6.91	1.6	7.65	2.0	8.42	2.2	9.21	2.4	10.03
	230	-0.1	4.34	0.0	4.62	0.3	5.04	0.6	5.59	0.9	6.22	1.3	6.91	1.7	7.65	2.0	8.42	2.3	9.21	2.5	10.03
	235	-0.1	4.34	0.1	4.62	0.3	5.04	0.6	5.59	1.0	6.22	1.4	6.91	1.7	7.65	2.1	8.42	2.4	9.21	2.5	10.03
	240	0.0	4.34	0.1	4.62	0.3	5.04	0.6	5.59	1.0	6.22	1.4	6.91	1.8	7.65	2.1	8.42	2.4	9.21	2.6	10.03
	245	0.0	4.34	0.1	4.62	0.3	5.04	0.7	5.59	1.0	6.22	1.4	6.91	1.8	7.65	2.2	8.42	2.5	9.21	2.7	10.03
	250	0.0	4.34	0.1	4.62	0.3	5.04	0.7	5.59	1.1	6.22	1.5	6.91	1.9	7.65	2.3	8.42	2.5	9.21	2.7	10.03
	255	0.0	4.34	0.1	4.62	0.4	5.04	0.7	5.59	1.1	6.22	1.5	6.91	1.9	7.65	2.3	8.42	2.6	9.21	2.8	10.03
36 (Gd 8)	185			0.0	4.34	0.2	4.62	0.4	5.04	0.7	5.59	1.1	6.22	1.4	6.91	1.7	7.65	1.9	8.42	2.0	9.21
	190			0.0	4.34	0.2	4.62	0.5	5.04	0.8	5.59	1.1	6.22	1.4	6.91	1.7	7.65	1.9	8.42	2.0	9.21
	195			0.1	4.34	0.2	4.62	0.5	5.04	0.8	5.59	1.1	6.22	1.5	6.91	1.8	7.65	2.0	8.42	2.1	9.21
	200			0.1	4.34	0.2	4.62	0.5	5.04	0.8	5.59	1.2	6.22	1.5	6.91	1.8	7.65	2.0	8.42	2.2	9.21
	205			0.1	4.34	0.3	4.62	0.5	5.04	0.8	5.59	1.2	6.22	1.5	6.91	1.8	7.65	2.1	8.42	2.2	9.21
	210			0.1	4.34	0.3	4.62	0.5	5.04	0.9	5.59	1.2	6.22	1.6	6.91	1.9	7.65	2.1	8.42	2.3	9.21
	215			0.1	4.34	0.3	4.62	0.6	5.04	0.9	5.59	1.3	6.22	1.6	6.91	1.9	7.65	2.2	8.42	2.3	9.21
	220			0.1	4.34	0.3	4.62	0.6	5.04	0.9	5.59	1.3	6.22	1.7	6.91	2.0	7.65	2.2	8.42	2.4	9.21
	225			0.1	4.34	0.3	4.62	0.6	5.04	1.0	5.59	1.3	6.22	1.7	6.91	2.0	7.65	2.3	8.42	2.5	9.21
	230			0.1	4.34	0.3	4.62	0.6	5.04	1.0	5.59	1.4	6.22	1.7	6.91	2.1	7.65	2.4	8.42	2.5	9.21
	235			0.1	4.34	0.3	4.62	0.6	5.04	1.0	5.59	1.4	6.22	1.8	6.91	2.1	7.65	2.4	8.42	2.6	9.21
	240			0.1	4.34	0.3	4.62	0.7	5.04	1.0	5.59	1.4	6.22	1.8	6.91	2.2	7.65	2.5	8.42	2.6	9.21
	245			0.1	4.34	0.4	4.62	0.7	5.04	1.1	5.59	1.5	6.22	1.9	6.91	2.2	7.65	2.5	8.42	2.7	9.21
	250			0.1	4.34	0.4	4.62	0.7	5.04	1.1	5.59	1.5	6.22	1.9	6.91	2.3	7.65	2.6	8.42	2.8	9.21
	255			0.1	4.34	0.4	4.62	0.7	5.04	1.1	5.59	1.5	6.22	2.0	6.91	2.3	7.65	2.6	8.42	2.8	9.21
4	185					0.2	4.34	0.4	4.62	0.7	5.04	1.0	5.59	1.3	6.22	1.6	6.91	1.8	7.65	1.9	8.42
	190					0.2	4.34	0.4	4.62	0.7	5.04	1.1	5.59	1.4	6.22	1.7	6.91	1.9	7.65	2.0	8.42

Table C.28. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																				
		Prior Grd		Focal Grade																		
		36		4		8		12		16		20		24		28		32		36		
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	195				0.2	4.34	0.4	4.62	0.7	5.04	1.1	5.59	1.4	6.22	1.7	6.91	1.9	7.65	2.0	8.42		
	200				0.2	4.34	0.4	4.62	0.8	5.04	1.1	5.59	1.4	6.22	1.7	6.91	2.0	7.65	2.1	8.42		
	205				0.2	4.34	0.5	4.62	0.8	5.04	1.1	5.59	1.5	6.22	1.8	6.91	2.0	7.65	2.2	8.42		
	210				0.2	4.34	0.5	4.62	0.8	5.04	1.2	5.59	1.5	6.22	1.8	6.91	2.1	7.65	2.2	8.42		
	215				0.2	4.34	0.5	4.62	0.8	5.04	1.2	5.59	1.5	6.22	1.9	6.91	2.1	7.65	2.3	8.42		
	220				0.2	4.34	0.5	4.62	0.8	5.04	1.2	5.59	1.6	6.22	1.9	6.91	2.2	7.65	2.3	8.42		
	225				0.2	4.34	0.5	4.62	0.9	5.04	1.2	5.59	1.6	6.22	1.9	6.91	2.2	7.65	2.4	8.42		
	230				0.2	4.34	0.5	4.62	0.9	5.04	1.3	5.59	1.6	6.22	2.0	6.91	2.3	7.65	2.4	8.42		
	235				0.2	4.34	0.5	4.62	0.9	5.04	1.3	5.59	1.7	6.22	2.0	6.91	2.3	7.65	2.5	8.42		
	240				0.2	4.34	0.6	4.62	0.9	5.04	1.3	5.59	1.7	6.22	2.1	6.91	2.4	7.65	2.5	8.42		
	245				0.2	4.34	0.6	4.62	0.9	5.04	1.4	5.59	1.8	6.22	2.1	6.91	2.4	7.65	2.6	8.42		
	250				0.2	4.34	0.6	4.62	1.0	5.04	1.4	5.59	1.8	6.22	2.2	6.91	2.5	7.65	2.6	8.42		
	255				0.3	4.34	0.6	4.62	1.0	5.04	1.4	5.59	1.8	6.22	2.2	6.91	2.5	7.65	2.7	8.42		
8	185						0.2	4.34	0.5	4.62	0.9	5.04	1.2	5.59	1.5	6.22	1.7	6.91	1.8	7.65		
	190						0.3	4.34	0.6	4.62	0.9	5.04	1.2	5.59	1.5	6.22	1.7	6.91	1.8	7.65		
	195						0.3	4.34	0.6	4.62	0.9	5.04	1.2	5.59	1.5	6.22	1.8	6.91	1.9	7.65		
	200						0.3	4.34	0.6	4.62	0.9	5.04	1.3	5.59	1.6	6.22	1.8	6.91	1.9	7.65		
	205						0.3	4.34	0.6	4.62	1.0	5.04	1.3	5.59	1.6	6.22	1.8	6.91	2.0	7.65		
	210						0.3	4.34	0.6	4.62	1.0	5.04	1.3	5.59	1.6	6.22	1.9	6.91	2.0	7.65		
	215						0.3	4.34	0.6	4.62	1.0	5.04	1.4	5.59	1.7	6.22	1.9	6.91	2.1	7.65		
	220						0.3	4.34	0.6	4.62	1.0	5.04	1.4	5.59	1.7	6.22	2.0	6.91	2.1	7.65		
	225						0.3	4.34	0.7	4.62	1.0	5.04	1.4	5.59	1.7	6.22	2.0	6.91	2.2	7.65		
	230						0.3	4.34	0.7	4.62	1.1	5.04	1.4	5.59	1.8	6.22	2.0	6.91	2.2	7.65		
	235						0.3	4.34	0.7	4.62	1.1	5.04	1.5	5.59	1.8	6.22	2.1	6.91	2.3	7.65		
	240						0.3	4.34	0.7	4.62	1.1	5.04	1.5	5.59	1.8	6.22	2.1	6.91	2.3	7.65		
	245						0.3	4.34	0.7	4.62	1.1	5.04	1.5	5.59	1.9	6.22	2.2	6.91	2.4	7.65		
	250						0.3	4.34	0.7	4.62	1.1	5.04	1.5	5.59	1.9	6.22	2.2	6.91	2.4	7.65		
	255						0.3	4.34	0.7	4.62	1.2	5.04	1.6	5.59	1.9	6.22	2.2	6.91	2.4	7.65		
12	185								0.3	4.34	0.6	4.62	0.9	5.04	1.2	5.59	1.4	6.22	1.5	6.91		
	190								0.3	4.34	0.6	4.62	1.0	5.04	1.2	5.59	1.5	6.22	1.6	6.91		
	195								0.3	4.34	0.7	4.62	1.0	5.04	1.3	5.59	1.5	6.22	1.6	6.91		
	200								0.3	4.34	0.7	4.62	1.0	5.04	1.3	5.59	1.5	6.22	1.7	6.91		
	205								0.3	4.34	0.7	4.62	1.0	5.04	1.3	5.59	1.6	6.22	1.7	6.91		
	210								0.3	4.34	0.7	4.62	1.0	5.04	1.4	5.59	1.6	6.22	1.7	6.91		

Table C.28. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																						
		Prior Grd		Focal Grade																				
		36		4		8		12		16		20		24		28		32		36				
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd			
	215							0.3	4.34	0.7	4.62	1.1	5.04	1.4	5.59	1.6	6.22	1.8	6.91					
	220							0.4	4.34	0.7	4.62	1.1	5.04	1.4	5.59	1.7	6.22	1.8	6.91					
	225							0.4	4.34	0.7	4.62	1.1	5.04	1.4	5.59	1.7	6.22	1.9	6.91					
	230							0.4	4.34	0.8	4.62	1.1	5.04	1.5	5.59	1.7	6.22	1.9	6.91					
	235							0.4	4.34	0.8	4.62	1.1	5.04	1.5	5.59	1.8	6.22	1.9	6.91					
	240							0.4	4.34	0.8	4.62	1.2	5.04	1.5	5.59	1.8	6.22	2.0	6.91					
	245							0.4	4.34	0.8	4.62	1.2	5.04	1.6	5.59	1.8	6.22	2.0	6.91					
	250							0.4	4.34	0.8	4.62	1.2	5.04	1.6	5.59	1.9	6.22	2.1	6.91					
	255							0.4	4.34	0.8	4.62	1.2	5.04	1.6	5.59	1.9	6.22	2.1	6.91					
16	185									0.3	4.34	0.6	4.62	0.9	5.04	1.1	5.59	1.2	6.22					
	190									0.3	4.34	0.7	4.62	0.9	5.04	1.2	5.59	1.3	6.22					
	195									0.3	4.34	0.7	4.62	1.0	5.04	1.2	5.59	1.3	6.22					
	200									0.3	4.34	0.7	4.62	1.0	5.04	1.2	5.59	1.3	6.22					
	205									0.4	4.34	0.7	4.62	1.0	5.04	1.2	5.59	1.4	6.22					
	210									0.4	4.34	0.7	4.62	1.0	5.04	1.3	5.59	1.4	6.22					
	215									0.4	4.34	0.7	4.62	1.0	5.04	1.3	5.59	1.4	6.22					
	220									0.4	4.34	0.7	4.62	1.1	5.04	1.3	5.59	1.5	6.22					
	225									0.4	4.34	0.8	4.62	1.1	5.04	1.4	5.59	1.5	6.22					
	230									0.4	4.34	0.8	4.62	1.1	5.04	1.4	5.59	1.5	6.22					
	235									0.4	4.34	0.8	4.62	1.1	5.04	1.4	5.59	1.6	6.22					
	240									0.4	4.34	0.8	4.62	1.1	5.04	1.4	5.59	1.6	6.22					
	245									0.4	4.34	0.8	4.62	1.2	5.04	1.5	5.59	1.6	6.22					
	250									0.4	4.34	0.8	4.62	1.2	5.04	1.5	5.59	1.7	6.22					
255									0.4	4.34	0.8	4.62	1.2	5.04	1.5	5.59	1.7	6.22						
20	185												0.3	4.34	0.6	4.62	0.8	5.04	0.9	5.59				
	190												0.3	4.34	0.6	4.62	0.8	5.04	0.9	5.59				
	195												0.3	4.34	0.6	4.62	0.8	5.04	1.0	5.59				
	200												0.3	4.34	0.6	4.62	0.9	5.04	1.0	5.59				
	205												0.3	4.34	0.7	4.62	0.9	5.04	1.0	5.59				
	210												0.4	4.34	0.7	4.62	0.9	5.04	1.1	5.59				
	215												0.4	4.34	0.7	4.62	0.9	5.04	1.1	5.59				
	220												0.4	4.34	0.7	4.62	1.0	5.04	1.1	5.59				
	225												0.4	4.34	0.7	4.62	1.0	5.04	1.1	5.59				
	230												0.4	4.34	0.7	4.62	1.0	5.04	1.2	5.59				

Table C.28. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																					
		Prior Grd		Focal Grade																			
		36		4		8		12		16		20		24		28		32		36			
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
235												0.4	4.34	0.7	4.62	1.0	5.04	1.2	5.59				
240												0.4	4.34	0.8	4.62	1.0	5.04	1.2	5.59				
245												0.4	4.34	0.8	4.62	1.1	5.04	1.2	5.59				
250												0.4	4.34	0.8	4.62	1.1	5.04	1.3	5.59				
255												0.4	4.34	0.8	4.62	1.1	5.04	1.3	5.59				

Table C.29. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 9)	185	0.2	4.37	0.6	4.72	1.1	5.25	1.6	5.91	2.2	6.67	2.8	7.50	3.4	8.36	4.0	9.27	4.5	10.19	4.9	11.14
	190	0.2	4.37	0.6	4.72	1.0	5.25	1.6	5.91	2.1	6.67	2.7	7.50	3.3	8.36	3.8	9.27	4.3	10.19	4.7	11.14
	195	0.2	4.37	0.5	4.72	1.0	5.25	1.5	5.91	2.0	6.67	2.6	7.50	3.2	8.36	3.7	9.27	4.1	10.19	4.5	11.14
	200	0.2	4.37	0.5	4.72	0.9	5.25	1.4	5.91	1.9	6.67	2.5	7.50	3.0	8.36	3.5	9.27	4.0	10.19	4.3	11.14
	205	0.2	4.37	0.4	4.72	0.8	5.25	1.3	5.91	1.8	6.67	2.4	7.50	2.9	8.36	3.4	9.27	3.8	10.19	4.1	11.14
	210	0.1	4.37	0.4	4.72	0.8	5.25	1.2	5.91	1.7	6.67	2.3	7.50	2.8	8.36	3.2	9.27	3.6	10.19	3.9	11.14
	215	0.1	4.37	0.4	4.72	0.7	5.25	1.2	5.91	1.6	6.67	2.1	7.50	2.6	8.36	3.1	9.27	3.4	10.19	3.7	11.14
	220	0.1	4.37	0.3	4.72	0.7	5.25	1.1	5.91	1.5	6.67	2.0	7.50	2.5	8.36	2.9	9.27	3.3	10.19	3.5	11.14
	225	0.1	4.37	0.3	4.72	0.6	5.25	1.0	5.91	1.4	6.67	1.9	7.50	2.3	8.36	2.8	9.27	3.1	10.19	3.3	11.14
	230	0.1	4.37	0.3	4.72	0.6	5.25	0.9	5.91	1.3	6.67	1.8	7.50	2.2	8.36	2.6	9.27	2.9	10.19	3.1	11.14
	235	0.0	4.37	0.2	4.72	0.5	5.25	0.9	5.91	1.3	6.67	1.7	7.50	2.1	8.36	2.4	9.27	2.7	10.19	2.9	11.14
	240	0.0	4.37	0.2	4.72	0.4	5.25	0.8	5.91	1.2	6.67	1.6	7.50	1.9	8.36	2.3	9.27	2.6	10.19	2.7	11.14
	245	0.0	4.37	0.1	4.72	0.4	5.25	0.7	5.91	1.1	6.67	1.4	7.50	1.8	8.36	2.1	9.27	2.4	10.19	2.5	11.14
	250	0.0	4.37	0.1	4.72	0.3	5.25	0.6	5.91	1.0	6.67	1.3	7.50	1.7	8.36	2.0	9.27	2.2	10.19	2.3	11.14
255	0.0	4.37	0.1	4.72	0.3	5.25	0.5	5.91	0.9	6.67	1.2	7.50	1.5	8.36	1.8	9.27	2.0	10.19	2.1	11.14	
260	-0.1	4.37	0.0	4.72	0.2	5.25	0.5	5.91	0.8	6.67	1.1	7.50	1.4	8.36	1.7	9.27	1.9	10.19	2.0	11.14	
36 (Gd 9)	185			0.4	4.37	0.8	4.72	1.4	5.25	2.0	5.91	2.6	6.67	3.2	7.50	3.8	8.36	4.3	9.27	4.6	10.19
	190			0.4	4.37	0.8	4.72	1.3	5.25	1.9	5.91	2.5	6.67	3.1	7.50	3.6	8.36	4.1	9.27	4.5	10.19
	195			0.3	4.37	0.8	4.72	1.3	5.25	1.8	5.91	2.4	6.67	3.0	7.50	3.5	8.36	3.9	9.27	4.3	10.19
	200			0.3	4.37	0.7	4.72	1.2	5.25	1.8	5.91	2.3	6.67	2.9	7.50	3.4	8.36	3.8	9.27	4.1	10.19
	205			0.3	4.37	0.7	4.72	1.2	5.25	1.7	5.91	2.2	6.67	2.7	7.50	3.2	8.36	3.6	9.27	3.9	10.19
	210			0.3	4.37	0.7	4.72	1.1	5.25	1.6	5.91	2.1	6.67	2.6	7.50	3.1	8.36	3.5	9.27	3.8	10.19
	215			0.3	4.37	0.6	4.72	1.0	5.25	1.5	5.91	2.0	6.67	2.5	7.50	2.9	8.36	3.3	9.27	3.6	10.19
	220			0.2	4.37	0.6	4.72	1.0	5.25	1.4	5.91	1.9	6.67	2.4	7.50	2.8	8.36	3.2	9.27	3.4	10.19
	225			0.2	4.37	0.5	4.72	0.9	5.25	1.4	5.91	1.8	6.67	2.3	7.50	2.7	8.36	3.0	9.27	3.2	10.19
	230			0.2	4.37	0.5	4.72	0.9	5.25	1.3	5.91	1.7	6.67	2.2	7.50	2.5	8.36	2.9	9.27	3.1	10.19
	235			0.2	4.37	0.5	4.72	0.8	5.25	1.2	5.91	1.6	6.67	2.0	7.50	2.4	8.36	2.7	9.27	2.9	10.19
	240			0.2	4.37	0.4	4.72	0.8	5.25	1.1	5.91	1.5	6.67	1.9	7.50	2.3	8.36	2.5	9.27	2.7	10.19
	245			0.1	4.37	0.4	4.72	0.7	5.25	1.1	5.91	1.4	6.67	1.8	7.50	2.1	8.36	2.4	9.27	2.5	10.19
	250			0.1	4.37	0.3	4.72	0.6	5.25	1.0	5.91	1.3	6.67	1.7	7.50	2.0	8.36	2.2	9.27	2.4	10.19
255			0.1	4.37	0.3	4.72	0.6	5.25	0.9	5.91	1.2	6.67	1.6	7.50	1.9	8.36	2.1	9.27	2.2	10.19	
260			0.1	4.37	0.3	4.72	0.5	5.25	0.8	5.91	1.1	6.67	1.5	7.50	1.7	8.36	1.9	9.27	2.0	10.19	

Table C.29. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																		
		Prior Grd		Focal Grade																
		36		4	8	12	16	20	24	28	32	36								
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
4	185				0.5	4.37	1.0	4.72	1.6	5.25	2.2	5.91	2.8	6.67	3.4	7.50	3.9	8.36	4.3	9.27
	190				0.5	4.37	1.0	4.72	1.6	5.25	2.2	5.91	2.7	6.67	3.3	7.50	3.7	8.36	4.1	9.27
	195				0.4	4.37	1.0	4.72	1.5	5.25	2.1	5.91	2.6	6.67	3.2	7.50	3.6	8.36	4.0	9.27
	200				0.4	4.37	0.9	4.72	1.4	5.25	2.0	5.91	2.5	6.67	3.0	7.50	3.5	8.36	3.8	9.27
	205				0.4	4.37	0.9	4.72	1.4	5.25	1.9	5.91	2.4	6.67	2.9	7.50	3.3	8.36	3.6	9.27
	210				0.4	4.37	0.8	4.72	1.3	5.25	1.8	5.91	2.4	6.67	2.8	7.50	3.2	8.36	3.5	9.27
	215				0.4	4.37	0.8	4.72	1.3	5.25	1.8	5.91	2.3	6.67	2.7	7.50	3.1	8.36	3.3	9.27
	220				0.3	4.37	0.8	4.72	1.2	5.25	1.7	5.91	2.2	6.67	2.6	7.50	2.9	8.36	3.2	9.27
	225				0.3	4.37	0.7	4.72	1.2	5.25	1.6	5.91	2.1	6.67	2.5	7.50	2.8	8.36	3.0	9.27
	230				0.3	4.37	0.7	4.72	1.1	5.25	1.5	5.91	2.0	6.67	2.3	7.50	2.7	8.36	2.9	9.27
	235				0.3	4.37	0.6	4.72	1.0	5.25	1.5	5.91	1.9	6.67	2.2	7.50	2.5	8.36	2.7	9.27
	240				0.3	4.37	0.6	4.72	1.0	5.25	1.4	5.91	1.8	6.67	2.1	7.50	2.4	8.36	2.6	9.27
	245				0.2	4.37	0.6	4.72	0.9	5.25	1.3	5.91	1.7	6.67	2.0	7.50	2.3	8.36	2.4	9.27
	250				0.2	4.37	0.5	4.72	0.9	5.25	1.2	5.91	1.6	6.67	1.9	7.50	2.1	8.36	2.2	9.27
	255				0.2	4.37	0.5	4.72	0.8	5.25	1.1	5.91	1.5	6.67	1.8	7.50	2.0	8.36	2.1	9.27
260				0.2	4.37	0.4	4.72	0.7	5.25	1.1	5.91	1.4	6.67	1.6	7.50	1.8	8.36	1.9	9.27	
8	185						0.6	4.37	1.2	4.72	1.8	5.25	2.4	5.91	2.9	6.67	3.4	7.50	3.8	8.36
	190						0.5	4.37	1.1	4.72	1.7	5.25	2.3	5.91	2.8	6.67	3.3	7.50	3.7	8.36
	195						0.5	4.37	1.1	4.72	1.6	5.25	2.2	5.91	2.7	6.67	3.2	7.50	3.5	8.36
	200						0.5	4.37	1.0	4.72	1.6	5.25	2.1	5.91	2.6	6.67	3.1	7.50	3.4	8.36
	205						0.5	4.37	1.0	4.72	1.5	5.25	2.1	5.91	2.5	6.67	2.9	7.50	3.3	8.36
	210						0.5	4.37	1.0	4.72	1.5	5.25	2.0	5.91	2.4	6.67	2.8	7.50	3.1	8.36
	215						0.4	4.37	0.9	4.72	1.4	5.25	1.9	5.91	2.3	6.67	2.7	7.50	3.0	8.36
	220						0.4	4.37	0.9	4.72	1.4	5.25	1.8	5.91	2.2	6.67	2.6	7.50	2.8	8.36
	225						0.4	4.37	0.8	4.72	1.3	5.25	1.7	5.91	2.1	6.67	2.5	7.50	2.7	8.36
	230						0.4	4.37	0.8	4.72	1.2	5.25	1.7	5.91	2.0	6.67	2.4	7.50	2.6	8.36
	235						0.4	4.37	0.8	4.72	1.2	5.25	1.6	5.91	2.0	6.67	2.2	7.50	2.4	8.36
	240						0.3	4.37	0.7	4.72	1.1	5.25	1.5	5.91	1.9	6.67	2.1	7.50	2.3	8.36
	245						0.3	4.37	0.7	4.72	1.1	5.25	1.4	5.91	1.8	6.67	2.0	7.50	2.2	8.36
	250						0.3	4.37	0.6	4.72	1.0	5.25	1.4	5.91	1.7	6.67	1.9	7.50	2.0	8.36
	255						0.3	4.37	0.6	4.72	0.9	5.25	1.3	5.91	1.6	6.67	1.8	7.50	1.9	8.36
260						0.3	4.37	0.6	4.72	0.9	5.25	1.2	5.91	1.5	6.67	1.7	7.50	1.8	8.36	
12	185							0.6	4.37	1.2	4.72	1.8	5.25	2.4	5.91	2.9	6.67	3.2	7.50	
	190							0.6	4.37	1.2	4.72	1.8	5.25	2.3	5.91	2.8	6.67	3.1	7.50	

Table C.29. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																		
		Prior Grd		Focal Grade																
		36		4	8	12	16	20	24	28	32	36								
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd			
	195						0.6	4.37	1.1	4.72	1.7	5.25	2.2	5.91	2.7	6.67	3.0	7.50		
	200						0.5	4.37	1.1	4.72	1.6	5.25	2.1	5.91	2.6	6.67	2.9	7.50		
	205						0.5	4.37	1.1	4.72	1.6	5.25	2.1	5.91	2.5	6.67	2.8	7.50		
	210						0.5	4.37	1.0	4.72	1.5	5.25	2.0	5.91	2.4	6.67	2.7	7.50		
	215						0.5	4.37	1.0	4.72	1.5	5.25	1.9	5.91	2.3	6.67	2.5	7.50		
	220						0.5	4.37	0.9	4.72	1.4	5.25	1.8	5.91	2.2	6.67	2.4	7.50		
	225						0.4	4.37	0.9	4.72	1.3	5.25	1.8	5.91	2.1	6.67	2.3	7.50		
	230						0.4	4.37	0.9	4.72	1.3	5.25	1.7	5.91	2.0	6.67	2.2	7.50		
	235						0.4	4.37	0.8	4.72	1.2	5.25	1.6	5.91	1.9	6.67	2.1	7.50		
	240						0.4	4.37	0.8	4.72	1.2	5.25	1.5	5.91	1.8	6.67	2.0	7.50		
	245						0.4	4.37	0.7	4.72	1.1	5.25	1.4	5.91	1.7	6.67	1.8	7.50		
	250						0.3	4.37	0.7	4.72	1.1	5.25	1.4	5.91	1.6	6.67	1.7	7.50		
	255						0.3	4.37	0.7	4.72	1.0	5.25	1.3	5.91	1.5	6.67	1.6	7.50		
	260						0.3	4.37	0.6	4.72	0.9	5.25	1.2	5.91	1.4	6.67	1.5	7.50		
16	185										0.6	4.37	1.2	4.72	1.8	5.25	2.3	5.91	2.7	6.67
	190										0.6	4.37	1.2	4.72	1.7	5.25	2.2	5.91	2.6	6.67
	195										0.6	4.37	1.1	4.72	1.7	5.25	2.1	5.91	2.5	6.67
	200										0.6	4.37	1.1	4.72	1.6	5.25	2.0	5.91	2.4	6.67
	205										0.5	4.37	1.1	4.72	1.5	5.25	2.0	5.91	2.3	6.67
	210										0.5	4.37	1.0	4.72	1.5	5.25	1.9	5.91	2.2	6.67
	215										0.5	4.37	1.0	4.72	1.4	5.25	1.8	5.91	2.1	6.67
	220										0.5	4.37	0.9	4.72	1.4	5.25	1.7	5.91	2.0	6.67
	225										0.5	4.37	0.9	4.72	1.3	5.25	1.6	5.91	1.9	6.67
	230										0.4	4.37	0.9	4.72	1.3	5.25	1.6	5.91	1.8	6.67
	235										0.4	4.37	0.8	4.72	1.2	5.25	1.5	5.91	1.7	6.67
	240										0.4	4.37	0.8	4.72	1.1	5.25	1.4	5.91	1.6	6.67
	245										0.4	4.37	0.8	4.72	1.1	5.25	1.3	5.91	1.5	6.67
	250										0.4	4.37	0.7	4.72	1.0	5.25	1.3	5.91	1.4	6.67
	255										0.3	4.37	0.7	4.72	1.0	5.25	1.2	5.91	1.3	6.67
	260										0.3	4.37	0.6	4.72	0.9	5.25	1.1	5.91	1.2	6.67
20	185												0.6	4.37	1.2	4.72	1.7	5.25	2.0	5.91
	190												0.6	4.37	1.1	4.72	1.6	5.25	2.0	5.91
	195												0.6	4.37	1.1	4.72	1.5	5.25	1.9	5.91
	200												0.5	4.37	1.0	4.72	1.5	5.25	1.8	5.91

Table C.29. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - MATHEMATICS, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4		8		12		16		20		24		28		32	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
205												0.5	4.37	1.0	4.72	1.4	5.25	1.7	5.91
210												0.5	4.37	1.0	4.72	1.4	5.25	1.6	5.91
215												0.5	4.37	0.9	4.72	1.3	5.25	1.6	5.91
220												0.5	4.37	0.9	4.72	1.2	5.25	1.5	5.91
225												0.5	4.37	0.9	4.72	1.2	5.25	1.4	5.91
230												0.4	4.37	0.8	4.72	1.1	5.25	1.3	5.91
235												0.4	4.37	0.8	4.72	1.1	5.25	1.3	5.91
240												0.4	4.37	0.7	4.72	1.0	5.25	1.2	5.91
245												0.4	4.37	0.7	4.72	1.0	5.25	1.1	5.91
250												0.4	4.37	0.7	4.72	0.9	5.25	1.0	5.91
255												0.3	4.37	0.6	4.72	0.8	5.25	0.9	5.91
260												0.3	4.37	0.6	4.72	0.8	5.25	0.9	5.91

Table C.30. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 3

Start Inst.	Start Wk	RIT	Ending Instructional Weeks																		
			Prior Grd		Focal Grade																
			36		4		8		12		16		20		24		28		32		36
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 2)	155	1.1	5.41	2.6	5.53	4.3	5.72	6.1	5.98	8.0	6.29	9.9	6.65	11.6	7.06	13.2	7.50	14.5	7.97	15.4	8.47
	160	1.0	5.41	2.4	5.53	4.0	5.72	5.7	5.98	7.5	6.29	9.3	6.65	10.9	7.06	12.4	7.50	13.6	7.97	14.4	8.47
	165	0.9	5.41	2.2	5.53	3.7	5.72	5.3	5.98	7.0	6.29	8.7	6.65	10.2	7.06	11.6	7.50	12.7	7.97	13.4	8.47
	170	0.8	5.41	2.0	5.53	3.4	5.72	4.9	5.98	6.5	6.29	8.1	6.65	9.6	7.06	10.8	7.50	11.8	7.97	12.4	8.46
	175	0.7	5.41	1.8	5.53	3.1	5.72	4.5	5.98	6.0	6.29	7.5	6.65	8.9	7.06	10.0	7.50	10.9	7.97	11.5	8.46
	180	0.6	5.41	1.6	5.53	2.8	5.72	4.1	5.98	5.5	6.29	6.9	6.65	8.2	7.06	9.2	7.50	10.0	7.97	10.5	8.46
	185	0.5	5.41	1.4	5.53	2.5	5.72	3.7	5.98	5.0	6.29	6.3	6.65	7.5	7.06	8.5	7.50	9.2	7.97	9.5	8.46
	190	0.4	5.41	1.2	5.53	2.2	5.72	3.3	5.98	4.5	6.29	5.7	6.65	6.8	7.06	7.7	7.50	8.3	7.97	8.5	8.46
	195	0.4	5.41	1.0	5.53	1.9	5.72	3.0	5.98	4.1	6.29	5.1	6.65	6.1	7.06	6.9	7.50	7.4	7.97	7.5	8.46
	200	0.3	5.41	0.8	5.53	1.6	5.72	2.6	5.98	3.6	6.29	4.5	6.65	5.4	7.06	6.1	7.50	6.5	7.97	6.5	8.46
	205	0.2	5.41	0.6	5.53	1.3	5.72	2.2	5.98	3.1	6.29	4.0	6.65	4.7	7.06	5.3	7.50	5.6	7.97	5.5	8.46
	210	0.1	5.41	0.4	5.53	1.0	5.72	1.8	5.98	2.6	6.29	3.4	6.65	4.0	7.06	4.5	7.50	4.7	7.97	4.6	8.47
215	-0.1	5.41	0.2	5.53	0.7	5.72	1.4	5.98	2.1	6.29	2.8	6.65	3.3	7.06	3.7	7.50	3.8	7.97	3.6	8.47	
220	-0.2	5.41	0.0	5.53	0.4	5.72	1.0	5.98	1.6	6.29	2.2	6.65	2.7	7.06	2.9	7.50	2.9	7.97	2.6	8.47	
36 (Gd 2)	155			1.5	5.41	3.1	5.53	5.0	5.72	6.9	5.98	8.7	6.29	10.5	6.65	12.1	7.06	13.3	7.50	14.3	7.97
	160			1.4	5.41	2.9	5.53	4.7	5.72	6.5	5.98	8.2	6.29	9.9	6.65	11.4	7.06	12.5	7.50	13.4	7.97
	165			1.3	5.41	2.7	5.53	4.4	5.72	6.1	5.98	7.7	6.29	9.3	6.65	10.7	7.06	11.8	7.50	12.5	7.97
	170			1.2	5.41	2.5	5.53	4.1	5.72	5.7	5.98	7.3	6.29	8.7	6.65	10.0	7.06	11.0	7.50	11.6	7.97
	175			1.1	5.41	2.4	5.53	3.8	5.72	5.3	5.98	6.8	6.29	8.1	6.65	9.3	7.06	10.2	7.50	10.7	7.97
	180			1.0	5.41	2.2	5.53	3.5	5.72	4.9	5.98	6.3	6.29	7.5	6.65	8.6	7.06	9.4	7.50	9.8	7.97
	185			0.9	5.41	2.0	5.53	3.2	5.72	4.5	5.98	5.8	6.29	6.9	6.65	7.9	7.06	8.6	7.50	8.9	7.97
	190			0.8	5.41	1.8	5.53	2.9	5.72	4.1	5.98	5.3	6.29	6.3	6.65	7.2	7.06	7.8	7.50	8.0	7.97
	195			0.7	5.41	1.6	5.53	2.6	5.72	3.7	5.98	4.8	6.29	5.8	6.65	6.5	7.06	7.0	7.50	7.2	7.97
	200			0.6	5.41	1.4	5.53	2.3	5.72	3.3	5.98	4.3	6.29	5.2	6.65	5.8	7.06	6.2	7.50	6.3	7.97
	205			0.5	5.41	1.2	5.53	2.0	5.72	2.9	5.98	3.8	6.29	4.6	6.65	5.2	7.06	5.5	7.50	5.4	7.97
	210			0.4	5.41	1.0	5.53	1.7	5.72	2.5	5.98	3.3	6.29	4.0	6.65	4.5	7.06	4.7	7.50	4.5	7.97
215			0.3	5.41	0.8	5.53	1.4	5.72	2.1	5.98	2.8	6.29	3.4	6.65	3.8	7.06	3.9	7.50	3.6	7.97	
220			0.2	5.41	0.6	5.53	1.1	5.72	1.7	5.98	2.3	6.29	2.8	6.65	3.1	7.06	3.1	7.50	2.7	7.97	
4	160					1.6	5.41	3.3	5.53	5.1	5.72	6.9	5.98	8.5	6.29	10.0	6.65	11.2	7.06	12.0	7.50
	165					1.5	5.41	3.1	5.53	4.8	5.72	6.5	5.98	8.1	6.29	9.4	6.65	10.5	7.06	11.2	7.50
	170					1.4	5.41	2.9	5.53	4.5	5.72	6.1	5.98	7.6	6.29	8.8	6.65	9.8	7.06	10.4	7.50
	175					1.3	5.41	2.7	5.53	4.2	5.72	5.7	5.98	7.1	6.29	8.2	6.65	9.1	7.06	9.7	7.50

Table C.30. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																				
		Prior Grd		Focal Grade																		
		36		4	8	12	16	20	24	28	32	36										
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	180				1.2	5.41	2.5	5.53	3.9	5.72	5.3	5.98	6.6	6.29	7.6	6.65	8.4	7.06	8.9	7.50		
	185				1.1	5.41	2.3	5.53	3.6	5.72	4.9	5.98	6.1	6.29	7.1	6.65	7.7	7.06	8.1	7.50		
	190				1.0	5.41	2.1	5.53	3.3	5.72	4.5	5.98	5.6	6.29	6.5	6.65	7.1	7.06	7.3	7.50		
	195				0.9	5.41	1.9	5.53	3.0	5.72	4.1	5.98	5.1	6.29	5.9	6.65	6.4	7.06	6.5	7.50		
	200				0.8	5.41	1.7	5.53	2.7	5.72	3.7	5.98	4.6	6.29	5.3	6.65	5.7	7.06	5.7	7.50		
	205				0.7	5.41	1.5	5.53	2.5	5.72	3.3	5.98	4.1	6.29	4.7	6.65	5.0	7.06	4.9	7.50		
	210				0.6	5.41	1.4	5.53	2.2	5.72	2.9	5.98	3.6	6.29	4.1	6.65	4.3	7.06	4.1	7.50		
	215				0.5	5.41	1.2	5.53	1.9	5.72	2.5	5.98	3.1	6.29	3.5	6.65	3.6	7.06	3.3	7.50		
	220				0.4	5.41	1.0	5.53	1.6	5.72	2.2	5.98	2.6	6.29	2.9	6.65	2.9	7.06	2.6	7.50		
8	160						1.7	5.41	3.5	5.53	5.3	5.72	7.0	5.98	8.4	6.29	9.6	6.65	10.4	7.06		
	165						1.6	5.41	3.3	5.53	5.0	5.72	6.6	5.98	7.9	6.29	9.0	6.65	9.7	7.06		
	170						1.5	5.41	3.1	5.53	4.7	5.72	6.2	5.98	7.4	6.29	8.4	6.65	9.1	7.06		
	175						1.4	5.41	2.9	5.53	4.4	5.72	5.8	5.98	6.9	6.29	7.8	6.65	8.4	7.06		
	180						1.3	5.41	2.7	5.53	4.1	5.72	5.4	5.98	6.5	6.29	7.2	6.65	7.7	7.06		
	185						1.2	5.41	2.5	5.53	3.8	5.72	5.0	5.98	6.0	6.29	6.7	6.65	7.0	7.06		
	190						1.1	5.41	2.3	5.53	3.5	5.72	4.6	5.98	5.5	6.29	6.1	6.65	6.3	7.06		
	195						1.0	5.41	2.2	5.53	3.2	5.72	4.2	5.98	5.0	6.29	5.5	6.65	5.6	7.06		
	200						0.9	5.41	2.0	5.53	2.9	5.72	3.8	5.98	4.5	6.29	4.9	6.65	4.9	7.06		
	205						0.8	5.41	1.8	5.53	2.6	5.72	3.4	5.98	4.0	6.29	4.3	6.65	4.2	7.06		
	210						0.8	5.41	1.6	5.53	2.3	5.72	3.0	5.98	3.5	6.29	3.7	6.65	3.5	7.06		
	215						0.7	5.41	1.4	5.53	2.0	5.72	2.6	5.98	3.0	6.29	3.1	6.65	2.8	7.06		
220						0.6	5.41	1.2	5.53	1.8	5.72	2.2	5.98	2.5	6.29	2.5	6.65	2.2	7.06			
12	160								1.8	5.41	3.6	5.53	5.2	5.72	6.7	5.98	7.9	6.29	8.7	6.65		
	165								1.7	5.41	3.4	5.53	4.9	5.72	6.3	5.98	7.4	6.29	8.1	6.65		
	170								1.6	5.41	3.2	5.53	4.6	5.72	5.9	5.98	6.9	6.29	7.5	6.65		
	175								1.5	5.41	3.0	5.53	4.3	5.72	5.5	5.98	6.4	6.29	6.9	6.65		
	180								1.4	5.41	2.8	5.53	4.0	5.72	5.1	5.98	5.9	6.29	6.3	6.65		
	185								1.3	5.41	2.6	5.53	3.7	5.72	4.7	5.98	5.4	6.29	5.7	6.65		
	190								1.2	5.41	2.4	5.53	3.5	5.72	4.3	5.98	4.9	6.29	5.2	6.65		
	195								1.1	5.41	2.2	5.53	3.2	5.72	3.9	5.98	4.4	6.29	4.6	6.65		
	200								1.0	5.41	2.0	5.53	2.9	5.72	3.5	5.98	3.9	6.29	4.0	6.65		
	205								0.9	5.41	1.8	5.53	2.6	5.72	3.1	5.98	3.4	6.29	3.4	6.65		
	210								0.8	5.41	1.6	5.53	2.3	5.72	2.8	5.98	3.0	6.29	2.8	6.65		
	215								0.7	5.41	1.4	5.53	2.0	5.72	2.4	5.98	2.5	6.29	2.2	6.65		

Table C.30. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	220									0.6	5.41	1.2	5.53	1.7	5.72	2.0	5.98	2.0	6.29	1.6	6.65
16	160											1.8	5.41	3.4	5.53	4.9	5.72	6.1	5.98	6.9	6.29
	165											1.7	5.41	3.2	5.53	4.6	5.72	5.7	5.98	6.4	6.29
	170											1.6	5.41	3.0	5.53	4.3	5.72	5.3	5.98	5.9	6.29
	175											1.5	5.41	2.8	5.53	4.0	5.72	4.9	5.98	5.4	6.29
	180											1.4	5.41	2.6	5.53	3.7	5.72	4.5	5.98	4.9	6.29
	185											1.3	5.41	2.4	5.53	3.4	5.72	4.1	5.98	4.4	6.29
	190											1.2	5.41	2.3	5.53	3.1	5.72	3.7	5.98	4.0	6.29
	195											1.1	5.41	2.1	5.53	2.8	5.72	3.3	5.98	3.5	6.29
	200											1.0	5.41	1.9	5.53	2.5	5.72	2.9	5.98	3.0	6.29
	205											0.9	5.41	1.7	5.53	2.2	5.72	2.5	5.98	2.5	6.29
	210											0.8	5.41	1.5	5.53	1.9	5.72	2.1	5.98	2.0	6.29
	215											0.7	5.41	1.3	5.53	1.6	5.72	1.8	5.98	1.5	6.29
220											0.6	5.41	1.1	5.53	1.4	5.72	1.4	5.98	1.0	6.29	
20	165													1.6	5.41	2.9	5.53	4.0	5.72	4.7	5.98
	170													1.5	5.41	2.7	5.53	3.7	5.72	4.3	5.98
	175													1.4	5.41	2.5	5.53	3.4	5.72	4.0	5.98
	180													1.3	5.41	2.3	5.53	3.1	5.72	3.6	5.98
	185													1.2	5.41	2.1	5.53	2.8	5.72	3.2	5.98
	190													1.1	5.41	1.9	5.53	2.5	5.72	2.8	5.98
	195													1.0	5.41	1.8	5.53	2.2	5.72	2.4	5.98
	200													0.9	5.41	1.6	5.53	2.0	5.72	2.0	5.98
	205													0.8	5.41	1.4	5.53	1.7	5.72	1.6	5.98
	210													0.7	5.41	1.2	5.53	1.4	5.72	1.2	5.98
	215													0.6	5.41	1.0	5.53	1.1	5.72	0.8	5.98
	220													0.48	5.41	0.76	5.53	0.76	5.72	0.4	5.98

Table C.31. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 3)	165	1.0	5.41	2.1	5.52	3.3	5.69	4.5	5.92	5.7	6.21	6.9	6.54	8.1	6.92	9.2	7.32	10.2	7.76	11.1	8.22
	170	0.9	5.41	1.9	5.52	3.0	5.69	4.2	5.92	5.3	6.21	6.5	6.54	7.6	6.92	8.6	7.32	9.6	7.76	10.4	8.22
	175	0.8	5.41	1.8	5.52	2.8	5.69	3.9	5.92	5.0	6.21	6.1	6.54	7.1	6.92	8.1	7.32	8.9	7.76	9.7	8.22
	180	0.8	5.41	1.7	5.52	2.6	5.69	3.6	5.92	4.6	6.21	5.6	6.54	6.6	6.91	7.5	7.32	8.3	7.76	8.9	8.22
	185	0.7	5.41	1.5	5.52	2.4	5.69	3.3	5.92	4.3	6.21	5.2	6.54	6.1	6.91	6.9	7.32	7.6	7.76	8.2	8.22
	190	0.6	5.41	1.4	5.52	2.2	5.69	3.0	5.92	3.9	6.21	4.8	6.54	5.6	6.91	6.4	7.32	7.0	7.76	7.5	8.22
	195	0.6	5.41	1.2	5.52	2.0	5.69	2.8	5.92	3.6	6.21	4.4	6.54	5.1	6.91	5.8	7.32	6.4	7.76	6.8	8.22
	200	0.5	5.41	1.1	5.52	1.7	5.69	2.5	5.92	3.2	6.21	3.9	6.54	4.6	6.91	5.2	7.32	5.7	7.76	6.1	8.22
	205	0.4	5.41	0.9	5.52	1.5	5.69	2.2	5.92	2.8	6.21	3.5	6.54	4.1	6.91	4.6	7.32	5.1	7.76	5.4	8.22
	210	0.3	5.41	0.8	5.52	1.3	5.69	1.9	5.92	2.5	6.21	3.1	6.54	3.6	6.91	4.1	7.32	4.4	7.76	4.6	8.22
	215	0.3	5.41	0.6	5.52	1.1	5.69	1.6	5.92	2.1	6.21	2.6	6.54	3.1	6.91	3.5	7.32	3.8	7.76	3.9	8.22
	220	0.2	5.41	0.5	5.52	0.9	5.69	1.3	5.92	1.8	6.21	2.2	6.54	2.6	6.92	2.9	7.32	3.1	7.76	3.2	8.22
225	0.1	5.41	0.4	5.52	0.7	5.69	1.0	5.92	1.4	6.21	1.8	6.54	2.1	6.92	2.3	7.32	2.5	7.76	2.5	8.22	
36 (Gd 3)	165			1.1	5.41	2.3	5.52	3.5	5.69	4.7	5.92	5.9	6.21	7.1	6.54	8.2	6.92	9.2	7.32	10.1	7.76
	170			1.0	5.41	2.1	5.52	3.3	5.69	4.4	5.92	5.6	6.21	6.7	6.54	7.7	6.92	8.7	7.32	9.5	7.76
	175			1.0	5.41	2.0	5.52	3.1	5.69	4.1	5.92	5.2	6.21	6.3	6.54	7.2	6.91	8.1	7.32	8.8	7.76
	180			0.9	5.41	1.8	5.52	2.8	5.69	3.9	5.92	4.9	6.21	5.8	6.54	6.7	6.91	7.5	7.32	8.2	7.76
	185			0.8	5.41	1.7	5.52	2.6	5.69	3.6	5.92	4.5	6.21	5.4	6.54	6.2	6.91	6.9	7.32	7.5	7.76
	190			0.7	5.41	1.6	5.52	2.4	5.69	3.3	5.92	4.2	6.21	5.0	6.54	5.7	6.91	6.4	7.32	6.9	7.76
	195			0.7	5.41	1.4	5.52	2.2	5.69	3.0	5.92	3.8	6.21	4.5	6.54	5.2	6.91	5.8	7.32	6.2	7.76
	200			0.6	5.41	1.3	5.52	2.0	5.69	2.7	5.92	3.4	6.21	4.1	6.54	4.7	6.91	5.2	7.32	5.6	7.76
	205			0.5	5.41	1.1	5.52	1.8	5.69	2.4	5.92	3.1	6.21	3.7	6.54	4.2	6.91	4.7	7.32	5.0	7.76
	210			0.5	5.41	1.0	5.52	1.6	5.69	2.1	5.92	2.7	6.21	3.3	6.54	3.7	6.91	4.1	7.32	4.3	7.76
	215			0.4	5.41	0.8	5.52	1.3	5.69	1.9	5.92	2.4	6.21	2.8	6.54	3.2	6.91	3.5	7.32	3.7	7.76
	220			0.3	5.41	0.7	5.52	1.1	5.69	1.6	5.92	2.0	6.21	2.4	6.54	2.7	6.92	2.9	7.32	3.0	7.76
225			0.2	5.41	0.5	5.52	0.9	5.69	1.3	5.92	1.7	6.21	2.0	6.54	2.2	6.92	2.4	7.32	2.4	7.76	
4	165					1.2	5.41	2.4	5.52	3.6	5.69	4.9	5.92	6.0	6.21	7.1	6.54	8.1	6.92	9.0	7.32
	170					1.1	5.41	2.3	5.52	3.4	5.69	4.6	5.92	5.7	6.21	6.7	6.54	7.6	6.92	8.4	7.32
	175					1.0	5.41	2.1	5.52	3.2	5.69	4.3	5.92	5.3	6.21	6.3	6.54	7.1	6.91	7.9	7.32
	180					1.0	5.41	2.0	5.52	3.0	5.69	4.0	5.92	5.0	6.21	5.9	6.54	6.6	6.91	7.3	7.32
	185					0.9	5.41	1.8	5.52	2.8	5.69	3.7	5.92	4.6	6.21	5.4	6.54	6.1	6.91	6.7	7.32
	190					0.8	5.41	1.7	5.52	2.6	5.69	3.4	5.92	4.2	6.21	5.0	6.54	5.6	6.91	6.2	7.32

Table C.31. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	195					0.7	5.41	1.5	5.52	2.3	5.69	3.1	5.92	3.9	6.21	4.6	6.54	5.1	6.91	5.6	7.32
	200					0.7	5.41	1.4	5.52	2.1	5.69	2.8	5.92	3.5	6.21	4.1	6.54	4.6	6.91	5.0	7.32
	205					0.6	5.41	1.2	5.52	1.9	5.69	2.6	5.92	3.2	6.21	3.7	6.54	4.1	6.91	4.4	7.32
	210					0.5	5.41	1.1	5.52	1.7	5.69	2.3	5.92	2.8	6.21	3.3	6.54	3.6	6.91	3.9	7.32
	215					0.5	5.41	1.0	5.52	1.5	5.69	2.0	5.92	2.5	6.21	2.8	6.54	3.1	6.91	3.3	7.32
	220					0.4	5.41	0.8	5.52	1.3	5.69	1.7	5.92	2.1	6.21	2.4	6.54	2.6	6.92	2.7	7.32
	225					0.3	5.41	0.7	5.52	1.1	5.69	1.4	5.92	1.7	6.21	2.0	6.54	2.1	6.92	2.1	7.32
8	165							1.2	5.41	2.5	5.52	3.7	5.69	4.9	5.92	6.0	6.21	7.0	6.54	7.8	6.92
	170							1.2	5.41	2.3	5.52	3.5	5.69	4.6	5.92	5.6	6.21	6.5	6.54	7.3	6.92
	175							1.1	5.41	2.2	5.52	3.3	5.69	4.3	5.92	5.3	6.21	6.1	6.54	6.8	6.91
	180							1.0	5.41	2.0	5.52	3.0	5.69	4.0	5.92	4.9	6.21	5.7	6.54	6.3	6.91
	185							0.9	5.41	1.9	5.52	2.8	5.69	3.7	5.92	4.5	6.21	5.3	6.54	5.8	6.91
	190							0.9	5.41	1.7	5.52	2.6	5.69	3.4	5.92	4.2	6.21	4.8	6.54	5.3	6.91
	195							0.8	5.41	1.6	5.52	2.4	5.69	3.1	5.92	3.8	6.21	4.4	6.54	4.8	6.91
	200							0.7	5.41	1.5	5.52	2.2	5.69	2.9	5.92	3.5	6.21	4.0	6.54	4.3	6.91
	205							0.7	5.41	1.3	5.52	2.0	5.69	2.6	5.92	3.1	6.21	3.5	6.54	3.8	6.91
	210							0.6	5.41	1.2	5.52	1.8	5.69	2.3	5.92	2.8	6.21	3.1	6.54	3.3	6.91
	215							0.5	5.41	1.0	5.52	1.5	5.69	2.0	5.92	2.4	6.21	2.7	6.54	2.8	6.91
220							0.4	5.41	0.9	5.52	1.3	5.69	1.7	5.92	2.0	6.21	2.3	6.54	2.3	6.92	
225							0.4	5.41	0.7	5.52	1.1	5.69	1.4	5.92	1.7	6.21	1.8	6.54	1.8	6.92	
12	170									1.2	5.41	2.3	5.52	3.4	5.69	4.5	5.92	5.4	6.21	6.2	6.54
	175									1.1	5.41	2.2	5.52	3.2	5.69	4.2	5.92	5.0	6.21	5.8	6.54
	180									1.0	5.41	2.0	5.52	3.0	5.69	3.9	5.92	4.7	6.21	5.3	6.54
	185									1.0	5.41	1.9	5.52	2.8	5.69	3.6	5.92	4.3	6.21	4.9	6.54
	190									0.9	5.41	1.7	5.52	2.6	5.69	3.3	5.92	4.0	6.21	4.5	6.54
	195									0.8	5.41	1.6	5.52	2.4	5.69	3.0	5.92	3.6	6.21	4.0	6.54
	200									0.7	5.41	1.5	5.52	2.1	5.69	2.7	5.92	3.3	6.21	3.6	6.54
	205									0.7	5.41	1.3	5.52	1.9	5.69	2.5	5.92	2.9	6.21	3.2	6.54
	210									0.6	5.41	1.2	5.52	1.7	5.69	2.2	5.92	2.5	6.21	2.8	6.54
	215									0.5	5.41	1.0	5.52	1.5	5.69	1.9	5.92	2.2	6.21	2.3	6.54
	220									0.5	5.41	0.9	5.52	1.3	5.69	1.6	5.92	1.8	6.21	1.9	6.54
225									0.4	5.41	0.7	5.52	1.1	5.69	1.3	5.92	1.5	6.21	1.5	6.54	
16	170											1.2	5.41	2.3	5.52	3.3	5.69	4.2	5.92	5.0	6.21
	175											1.1	5.41	2.1	5.52	3.1	5.69	3.9	5.92	4.7	6.21

Table C.31. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4		8		12		16		20		24		28		32	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	180									1.0	5.41	2.0	5.52	2.9	5.69	3.7	5.92	4.3	6.21
	185									0.9	5.41	1.8	5.52	2.7	5.69	3.4	5.92	4.0	6.21
	190									0.9	5.41	1.7	5.52	2.4	5.69	3.1	5.92	3.6	6.21
	195									0.8	5.41	1.6	5.52	2.2	5.69	2.8	5.92	3.2	6.21
	200									0.7	5.41	1.4	5.52	2.0	5.69	2.5	5.92	2.9	6.21
	205									0.7	5.41	1.3	5.52	1.8	5.69	2.2	5.92	2.5	6.21
	210									0.6	5.41	1.1	5.52	1.6	5.69	1.9	5.92	2.2	6.21
	215									0.5	5.41	1.0	5.52	1.4	5.69	1.7	5.92	1.8	6.21
	220									0.4	5.41	0.8	5.52	1.2	5.69	1.4	5.92	1.5	6.21
	225									0.4	5.41	0.7	5.52	0.9	5.69	1.1	5.92	1.1	6.21
	230									0.3	5.41	0.5	5.52	0.7	5.69	0.8	5.92	0.7	6.21
20	170											1.1	5.41	2.1	5.52	3.1	5.69	3.9	5.92
	175											1.0	5.41	2.0	5.52	2.9	5.69	3.6	5.92
	180											1.0	5.41	1.9	5.52	2.7	5.69	3.3	5.92
	185											0.9	5.41	1.7	5.52	2.4	5.69	3.0	5.92
	190											0.8	5.41	1.6	5.52	2.2	5.69	2.7	5.92
	195											0.8	5.41	1.4	5.52	2.0	5.69	2.4	5.92
	200											0.7	5.41	1.3	5.52	1.8	5.69	2.2	5.92
	205											0.6	5.41	1.1	5.52	1.6	5.69	1.9	5.92
	210											0.5	5.41	1.0	5.52	1.4	5.69	1.6	5.92
	215											0.5	5.41	0.9	5.52	1.1	5.69	1.3	5.92
	220											0.4	5.41	0.7	5.52	0.9	5.69	1.0	5.92
	225											0.3	5.41	0.6	5.52	0.7	5.69	0.7	5.92
	230											0.3	5.41	0.4	5.52	0.5	5.69	0.4	5.92

Table C.32. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 4)	170	0.8	5.42	1.7	5.54	2.7	5.74	3.7	6.01	4.6	6.34	5.6	6.72	6.4	7.15	7.2	7.61	7.7	8.10	8.1	8.62
	175	0.8	5.42	1.6	5.54	2.5	5.74	3.5	6.01	4.4	6.34	5.3	6.72	6.1	7.15	6.8	7.61	7.4	8.10	7.7	8.62
	180	0.7	5.42	1.5	5.54	2.4	5.74	3.3	6.01	4.2	6.34	5.1	6.72	5.8	7.15	6.5	7.61	7.0	8.10	7.2	8.62
	185	0.7	5.42	1.4	5.54	2.3	5.74	3.1	6.01	4.0	6.34	4.8	6.72	5.5	7.15	6.1	7.61	6.6	8.10	6.8	8.62
	190	0.6	5.42	1.3	5.54	2.1	5.74	3.0	6.01	3.8	6.34	4.5	6.72	5.2	7.15	5.8	7.61	6.2	8.10	6.4	8.62
	195	0.6	5.42	1.3	5.54	2.0	5.74	2.8	6.01	3.6	6.34	4.3	6.72	4.9	7.15	5.4	7.61	5.8	8.10	5.9	8.62
	200	0.5	5.42	1.2	5.54	1.9	5.74	2.6	6.01	3.3	6.34	4.0	6.72	4.6	7.15	5.1	7.61	5.4	8.10	5.5	8.62
	205	0.5	5.42	1.1	5.54	1.7	5.74	2.4	6.01	3.1	6.34	3.8	6.72	4.3	7.15	4.7	7.61	5.0	8.10	5.1	8.62
	210	0.4	5.42	1.0	5.54	1.6	5.74	2.3	6.01	2.9	6.34	3.5	6.72	4.0	7.15	4.4	7.61	4.6	8.10	4.6	8.62
	215	0.4	5.42	0.9	5.54	1.5	5.74	2.1	6.01	2.7	6.34	3.2	6.72	3.7	7.15	4.0	7.61	4.2	8.10	4.2	8.62
	220	0.4	5.42	0.8	5.54	1.4	5.74	1.9	6.01	2.5	6.34	3.0	6.72	3.4	7.15	3.7	7.61	3.8	8.10	3.7	8.62
	225	0.3	5.42	0.7	5.54	1.2	5.74	1.7	6.01	2.2	6.34	2.7	6.72	3.1	7.15	3.3	7.61	3.4	8.10	3.3	8.62
230	0.3	5.42	0.6	5.54	1.1	5.74	1.6	6.01	2.0	6.34	2.4	6.72	2.8	7.15	3.0	7.61	3.0	8.10	2.9	8.62	
36 (Gd 4)	170			0.9	5.42	1.9	5.54	2.9	5.74	3.9	6.01	4.8	6.34	5.7	6.72	6.4	7.15	7.0	7.61	7.3	8.10
	175			0.9	5.42	1.8	5.54	2.7	5.74	3.7	6.01	4.6	6.34	5.4	6.72	6.1	7.15	6.6	7.61	6.9	8.10
	180			0.8	5.42	1.7	5.54	2.6	5.74	3.5	6.01	4.4	6.34	5.1	6.72	5.8	7.15	6.3	7.61	6.5	8.10
	185			0.8	5.42	1.6	5.54	2.5	5.74	3.3	6.01	4.1	6.34	4.9	6.72	5.5	7.15	5.9	7.61	6.1	8.10
	190			0.7	5.42	1.5	5.54	2.3	5.74	3.2	6.01	3.9	6.34	4.6	6.72	5.2	7.15	5.6	7.61	5.8	8.10
	195			0.7	5.42	1.4	5.54	2.2	5.74	3.0	6.01	3.7	6.34	4.3	6.72	4.9	7.15	5.2	7.61	5.4	8.10
	200			0.6	5.42	1.3	5.54	2.1	5.74	2.8	6.01	3.5	6.34	4.1	6.72	4.5	7.15	4.9	7.61	5.0	8.10
	205			0.6	5.42	1.3	5.54	1.9	5.74	2.6	6.01	3.3	6.34	3.8	6.72	4.2	7.15	4.5	7.61	4.6	8.10
	210			0.6	5.42	1.2	5.54	1.8	5.74	2.5	6.01	3.0	6.34	3.6	6.72	3.9	7.15	4.2	7.61	4.2	8.10
	215			0.5	5.42	1.1	5.54	1.7	5.74	2.3	6.01	2.8	6.34	3.3	6.72	3.6	7.15	3.8	7.61	3.8	8.10
	220			0.5	5.42	1.0	5.54	1.6	5.74	2.1	6.01	2.6	6.34	3.0	6.72	3.3	7.15	3.5	7.61	3.4	8.10
	225			0.4	5.42	0.9	5.54	1.4	5.74	1.9	6.01	2.4	6.34	2.8	6.72	3.0	7.15	3.1	7.61	3.0	8.10
230			0.4	5.42	0.8	5.54	1.3	5.74	1.8	6.01	2.2	6.34	2.5	6.72	2.7	7.15	2.8	7.61	2.6	8.10	
4	170					1.0	5.42	2.0	5.54	3.0	5.74	3.9	6.01	4.8	6.34	5.5	6.72	6.1	7.15	6.4	7.61
	175					0.9	5.42	1.9	5.54	2.8	5.74	3.7	6.01	4.5	6.34	5.2	6.72	5.8	7.15	6.1	7.61
	180					0.9	5.42	1.8	5.54	2.7	5.74	3.5	6.01	4.3	6.34	5.0	6.72	5.4	7.15	5.7	7.61
	185					0.8	5.42	1.7	5.54	2.6	5.74	3.4	6.01	4.1	6.34	4.7	6.72	5.1	7.15	5.4	7.61
	190					0.8	5.42	1.6	5.54	2.4	5.74	3.2	6.01	3.9	6.34	4.4	6.72	4.8	7.15	5.0	7.61
	195					0.8	5.42	1.5	5.54	2.3	5.74	3.0	6.01	3.7	6.34	4.2	6.72	4.5	7.15	4.7	7.61

Table C.32. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																					
		Prior Grd		Focal Grade																			
		36		4	8	12	16	20	24	28	32	36											
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	200				0.7	5.42	1.4	5.54	2.2	5.74	2.8	6.01	3.4	6.34	3.9	6.72	4.2	7.15	4.3	7.61			
	205				0.7	5.42	1.4	5.54	2.0	5.74	2.7	6.01	3.2	6.34	3.6	6.72	3.9	7.15	4.0	7.61			
	210				0.6	5.42	1.3	5.54	1.9	5.74	2.5	6.01	3.0	6.34	3.4	6.72	3.6	7.15	3.6	7.61			
	215				0.6	5.42	1.2	5.54	1.8	5.74	2.3	6.01	2.8	6.34	3.1	6.72	3.3	7.15	3.3	7.61			
	220				0.5	5.42	1.1	5.54	1.6	5.74	2.1	6.01	2.6	6.34	2.9	6.72	3.0	7.15	2.9	7.61			
	225				0.5	5.42	1.0	5.54	1.5	5.74	2.0	6.01	2.3	6.34	2.6	6.72	2.7	7.15	2.6	7.61			
	230				0.4	5.42	0.9	5.54	1.4	5.74	1.8	6.01	2.1	6.34	2.3	6.72	2.4	7.15	2.2	7.61			
8	170						1.0	5.42	2.0	5.54	2.9	5.74	3.8	6.01	4.5	6.34	5.1	6.72	5.5	7.15			
	175						1.0	5.42	1.9	5.54	2.8	5.74	3.6	6.01	4.3	6.34	4.8	6.72	5.2	7.15			
	180						0.9	5.42	1.8	5.54	2.7	5.74	3.4	6.01	4.1	6.34	4.6	6.72	4.8	7.15			
	185						0.9	5.42	1.7	5.54	2.5	5.74	3.3	6.01	3.9	6.34	4.3	6.72	4.5	7.15			
	190						0.8	5.42	1.6	5.54	2.4	5.74	3.1	6.01	3.6	6.34	4.0	6.72	4.2	7.15			
	195						0.8	5.42	1.6	5.54	2.3	5.74	2.9	6.01	3.4	6.34	3.8	6.72	3.9	7.15			
	200						0.7	5.42	1.5	5.54	2.1	5.74	2.7	6.01	3.2	6.34	3.5	6.72	3.6	7.15			
	205							0.7	5.42	1.4	5.54	2.0	5.74	2.6	6.01	3.0	6.34	3.3	6.72	3.3	7.15		
	210							0.7	5.42	1.3	5.54	1.9	5.74	2.4	6.01	2.8	6.34	3.0	6.72	3.0	7.15		
	215							0.6	5.42	1.2	5.54	1.7	5.74	2.2	6.01	2.6	6.34	2.7	6.72	2.7	7.15		
	220							0.6	5.42	1.1	5.54	1.6	5.74	2.0	6.01	2.3	6.34	2.5	6.72	2.4	7.15		
	225							0.5	5.42	1.0	5.54	1.5	5.74	1.9	6.01	2.1	6.34	2.2	6.72	2.1	7.15		
	230							0.5	5.42	0.9	5.54	1.4	5.74	1.7	6.01	1.9	6.34	1.9	6.72	1.8	7.15		
235							0.4	5.42	0.9	5.54	1.2	5.74	1.5	6.01	1.7	6.34	1.7	6.72	1.5	7.15			
12	170								1.0	5.42	1.9	5.54	2.8	5.74	3.5	6.01	4.1	6.34	4.5	6.72			
	175								0.9	5.42	1.8	5.54	2.7	5.74	3.3	6.01	3.9	6.34	4.2	6.72			
	180								0.9	5.42	1.8	5.54	2.5	5.74	3.2	6.01	3.7	6.34	3.9	6.72			
	185								0.9	5.42	1.7	5.54	2.4	5.74	3.0	6.01	3.4	6.34	3.7	6.72			
	190								0.8	5.42	1.6	5.54	2.3	5.74	2.8	6.01	3.2	6.34	3.4	6.72			
	195								0.8	5.42	1.5	5.54	2.1	5.74	2.6	6.01	3.0	6.34	3.2	6.72			
	200								0.7	5.42	1.4	5.54	2.0	5.74	2.5	6.01	2.8	6.34	2.9	6.72			
	205								0.7	5.42	1.3	5.54	1.9	5.74	2.3	6.01	2.6	6.34	2.6	6.72			
	210								0.6	5.42	1.2	5.54	1.7	5.74	2.1	6.01	2.3	6.34	2.4	6.72			
	215								0.6	5.42	1.1	5.54	1.6	5.74	1.9	6.01	2.1	6.34	2.1	6.72			
	220								0.6	5.42	1.1	5.54	1.5	5.74	1.8	6.01	1.9	6.34	1.8	6.72			
	225								0.5	5.42	1.0	5.54	1.3	5.74	1.6	6.01	1.7	6.34	1.6	6.72			
	230								0.5	5.42	0.9	5.54	1.2	5.74	1.4	6.01	1.5	6.34	1.3	6.72			

Table C.32. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	235									0.4	5.42	0.8	5.54	1.1	5.74	1.2	6.01	1.2	6.34	1.1	6.72
16	175											0.9	5.42	1.7	5.54	2.4	5.74	2.9	6.01	3.3	6.34
	180											0.9	5.42	1.6	5.54	2.3	5.74	2.8	6.01	3.0	6.34
	185											0.8	5.42	1.5	5.54	2.1	5.74	2.6	6.01	2.8	6.34
	190											0.8	5.42	1.5	5.54	2.0	5.74	2.4	6.01	2.6	6.34
	195											0.7	5.42	1.4	5.54	1.9	5.74	2.2	6.01	2.4	6.34
	200											0.7	5.42	1.3	5.54	1.7	5.74	2.1	6.01	2.2	6.34
	205											0.6	5.42	1.2	5.54	1.6	5.74	1.9	6.01	1.9	6.34
	210											0.6	5.42	1.1	5.54	1.5	5.74	1.7	6.01	1.7	6.34
	215											0.6	5.42	1.0	5.54	1.4	5.74	1.5	6.01	1.5	6.34
	220											0.5	5.42	0.9	5.54	1.2	5.74	1.4	6.01	1.3	6.34
	225											0.5	5.42	0.8	5.54	1.1	5.74	1.2	6.01	1.1	6.34
	230											0.4	5.42	0.8	5.54	1.0	5.74	1.0	6.01	0.9	6.34
	235											0.4	5.42	0.7	5.54	0.8	5.74	0.8	6.01	0.6	6.34
20	175													0.8	5.42	1.5	5.54	2.0	5.74	2.4	6.01
	180													0.8	5.42	1.4	5.54	1.9	5.74	2.2	6.01
	185													0.7	5.42	1.3	5.54	1.8	5.74	2.0	6.01
	190													0.7	5.42	1.2	5.54	1.6	5.74	1.8	6.01
	195													0.6	5.42	1.2	5.54	1.5	5.74	1.7	6.01
	200													0.6	5.42	1.1	5.54	1.4	5.74	1.5	6.01
	205													0.6	5.42	1.0	5.54	1.2	5.74	1.3	6.01
	210													0.5	5.42	0.9	5.54	1.1	5.74	1.1	6.01
	215													0.5	5.42	0.8	5.54	1.0	5.74	1.0	6.01
	220													0.4	5.42	0.7	5.54	0.9	5.74	0.8	6.01
	225													0.4	5.42	0.6	5.54	0.7	5.74	0.6	6.01
	230													0.3	5.42	0.5	5.54	0.6	5.74	0.4	6.01
	235													0.3	5.42	0.5	5.54	0.5	5.74	0.3	6.01

Table C.33. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 6

Start Inst.	Start Wk	RIT	Ending Instructional Weeks																		
			Prior Grd		Focal Grade																
			36		4	8	12	16	20	24	28	32	36								
	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd			
32 (Gd 5)	170	0.6	5.41	1.4	5.52	2.2	5.70	3.2	5.95	4.1	6.24	5.1	6.59	6.0	6.98	6.9	7.40	7.6	7.85	8.3	8.33
	175	0.6	5.41	1.3	5.52	2.0	5.70	2.9	5.95	3.8	6.24	4.7	6.59	5.5	6.98	6.3	7.40	7.0	7.85	7.6	8.33
	180	0.5	5.41	1.1	5.52	1.8	5.70	2.6	5.95	3.5	6.24	4.3	6.59	5.1	6.98	5.8	7.40	6.5	7.85	7.0	8.32
	185	0.4	5.41	1.0	5.52	1.6	5.70	2.4	5.95	3.1	6.24	3.9	6.59	4.6	6.98	5.3	7.40	5.9	7.85	6.3	8.32
	190	0.4	5.41	0.9	5.52	1.4	5.70	2.1	5.95	2.8	6.24	3.5	6.59	4.2	6.98	4.8	7.40	5.3	7.85	5.7	8.32
	195	0.3	5.41	0.7	5.52	1.3	5.70	1.8	5.95	2.5	6.24	3.1	6.59	3.7	6.98	4.2	7.40	4.7	7.85	5.0	8.32
	200	0.2	5.41	0.6	5.52	1.1	5.70	1.6	5.95	2.1	6.24	2.7	6.59	3.2	6.98	3.7	7.40	4.1	7.85	4.4	8.32
	205	0.2	5.41	0.5	5.52	0.9	5.70	1.3	5.95	1.8	6.24	2.3	6.59	2.8	6.98	3.2	7.40	3.5	7.85	3.7	8.32
	210	0.1	5.41	0.3	5.52	0.7	5.70	1.1	5.95	1.5	6.24	1.9	6.59	2.3	6.98	2.7	7.40	2.9	7.85	3.0	8.32
	215	0.0	5.41	0.2	5.52	0.5	5.70	0.8	5.95	1.2	6.24	1.5	6.59	1.9	6.98	2.1	7.40	2.3	7.85	2.4	8.32
	220	0.0	5.41	0.1	5.52	0.3	5.70	0.5	5.95	0.8	6.24	1.1	6.59	1.4	6.98	1.6	7.40	1.7	7.85	1.7	8.32
	225	-0.1	5.41	-0.1	5.52	0.1	5.70	0.3	5.95	0.5	6.24	0.7	6.59	0.9	6.98	1.1	7.40	1.1	7.85	1.1	8.32
	230	-0.2	5.41	-0.2	5.52	-0.1	5.70	0.0	5.95	0.2	6.24	0.3	6.59	0.5	6.98	0.6	7.40	0.6	7.85	0.4	8.32
235	-0.2	5.41	-0.3	5.52	-0.3	5.70	-0.3	5.95	-0.2	6.24	-0.1	6.59	0.0	6.98	0.0	7.40	0.0	7.85	-0.2	8.33	
36 (Gd 5)	175			0.7	5.41	1.5	5.52	2.3	5.70	3.2	5.95	4.1	6.24	5.0	6.59	5.8	6.98	6.5	7.40	7.1	7.85
	180			0.6	5.41	1.3	5.52	2.1	5.70	3.0	5.95	3.8	6.24	4.6	6.59	5.3	6.98	6.0	7.40	6.5	7.85
	185			0.6	5.41	1.2	5.52	1.9	5.70	2.7	5.95	3.5	6.24	4.2	6.59	4.9	6.98	5.4	7.40	5.9	7.85
	190			0.5	5.41	1.1	5.52	1.7	5.70	2.4	5.95	3.1	6.24	3.8	6.59	4.4	6.98	4.9	7.40	5.3	7.85
	195			0.4	5.41	1.0	5.52	1.5	5.70	2.2	5.95	2.8	6.24	3.4	6.59	3.9	6.98	4.4	7.40	4.7	7.85
	200			0.4	5.41	0.8	5.52	1.3	5.70	1.9	5.95	2.5	6.24	3.0	6.59	3.5	6.98	3.9	7.40	4.1	7.85
	205			0.3	5.41	0.7	5.52	1.2	5.70	1.6	5.95	2.1	6.24	2.6	6.59	3.0	6.98	3.3	7.40	3.5	7.85
	210			0.2	5.41	0.6	5.52	1.0	5.70	1.4	5.95	1.8	6.24	2.2	6.59	2.6	6.98	2.8	7.40	2.9	7.85
	215			0.2	5.41	0.4	5.52	0.8	5.70	1.1	5.95	1.5	6.24	1.8	6.59	2.1	6.98	2.3	7.40	2.4	7.85
	220			0.1	5.41	0.3	5.52	0.6	5.70	0.9	5.95	1.2	6.24	1.4	6.59	1.6	6.98	1.8	7.40	1.8	7.85
	225			0.0	5.41	0.2	5.52	0.4	5.70	0.6	5.95	0.8	6.24	1.0	6.59	1.2	6.98	1.2	7.40	1.2	7.85
230			0.0	5.41	0.0	5.52	0.2	5.70	0.3	5.95	0.5	6.24	0.6	6.59	0.7	6.98	0.7	7.40	0.6	7.85	
235			-0.1	5.41	-0.1	5.52	0.0	5.70	0.1	5.95	0.2	6.24	0.2	6.59	0.3	6.98	0.2	7.40	0.0	7.85	
4	175					0.8	5.41	1.6	5.52	2.5	5.70	3.4	5.95	4.3	6.24	5.1	6.59	5.8	6.98	6.4	7.40
	180					0.7	5.41	1.5	5.52	2.3	5.70	3.2	5.95	4.0	6.24	4.7	6.59	5.3	6.98	5.9	7.40
	185					0.7	5.41	1.4	5.52	2.1	5.70	2.9	5.95	3.6	6.24	4.3	6.59	4.9	6.98	5.3	7.40
	190					0.6	5.41	1.2	5.52	1.9	5.70	2.6	5.95	3.3	6.24	3.9	6.59	4.4	6.98	4.8	7.40
	195					0.5	5.41	1.1	5.52	1.7	5.70	2.4	5.95	3.0	6.24	3.5	6.59	4.0	6.98	4.3	7.40

Table C.33. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 6

Start Inst. Wk	Start RIT	Ending Instructional Weeks																		
		Prior Grd		Focal Grade																
		36		4	8	12	16	20	24	28	32	36								
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	200				0.5	5.41	1.0	5.52	1.5	5.70	2.1	5.95	2.6	6.24	3.1	6.59	3.5	6.98	3.8	7.40
	205				0.4	5.41	0.9	5.52	1.3	5.70	1.8	5.95	2.3	6.24	2.7	6.59	3.0	6.98	3.2	7.40
	210				0.3	5.41	0.7	5.52	1.2	5.70	1.6	5.95	2.0	6.24	2.3	6.59	2.6	6.98	2.7	7.40
	215				0.3	5.41	0.6	5.52	1.0	5.70	1.3	5.95	1.7	6.24	1.9	6.59	2.1	6.98	2.2	7.40
	220				0.2	5.41	0.5	5.52	0.8	5.70	1.1	5.95	1.3	6.24	1.5	6.59	1.7	6.98	1.7	7.40
	225				0.1	5.41	0.3	5.52	0.6	5.70	0.8	5.95	1.0	6.24	1.2	6.59	1.2	6.98	1.1	7.40
	230				0.1	5.41	0.2	5.52	0.4	5.70	0.5	5.95	0.7	6.24	0.8	6.59	0.7	6.98	0.6	7.40
	235				0.0	5.41	0.1	5.52	0.2	5.70	0.3	5.95	0.3	6.24	0.4	6.59	0.3	6.98	0.1	7.40
8	175						0.9	5.41	1.7	5.52	2.6	5.70	3.5	5.95	4.3	6.24	5.0	6.59	5.6	6.98
	180						0.8	5.41	1.6	5.52	2.4	5.70	3.2	5.95	4.0	6.24	4.6	6.59	5.1	6.98
	185						0.7	5.41	1.5	5.52	2.2	5.70	3.0	5.95	3.6	6.24	4.2	6.59	4.7	6.98
	190						0.7	5.41	1.4	5.52	2.0	5.70	2.7	5.95	3.3	6.24	3.8	6.59	4.2	6.98
	195						0.6	5.41	1.2	5.52	1.8	5.70	2.4	5.95	3.0	6.24	3.4	6.59	3.8	6.98
	200						0.5	5.41	1.1	5.52	1.7	5.70	2.2	5.95	2.7	6.24	3.0	6.59	3.3	6.98
	205						0.5	5.41	1.0	5.52	1.5	5.70	1.9	5.95	2.3	6.24	2.7	6.59	2.9	6.98
	210						0.4	5.41	0.8	5.52	1.3	5.70	1.7	5.95	2.0	6.24	2.3	6.59	2.4	6.98
	215						0.3	5.41	0.7	5.52	1.1	5.70	1.4	5.95	1.7	6.24	1.9	6.59	1.9	6.98
	220						0.3	5.41	0.6	5.52	0.9	5.70	1.1	5.95	1.3	6.24	1.5	6.59	1.5	6.98
	225						0.2	5.41	0.4	5.52	0.7	5.70	0.9	5.95	1.0	6.24	1.1	6.59	1.0	6.98
	230						0.1	5.41	0.3	5.52	0.5	5.70	0.6	5.95	0.7	6.24	0.7	6.59	0.6	6.98
	235						0.1	5.41	0.2	5.52	0.3	5.70	0.3	5.95	0.4	6.24	0.3	6.59	0.1	6.98
12	175								0.9	5.41	1.8	5.52	2.6	5.70	3.4	5.95	4.2	6.24	4.8	6.59
	180								0.8	5.41	1.7	5.52	2.4	5.70	3.2	5.95	3.8	6.24	4.4	6.59
	185								0.8	5.41	1.5	5.52	2.3	5.70	2.9	5.95	3.5	6.24	4.0	6.59
	190								0.7	5.41	1.4	5.52	2.1	5.70	2.7	5.95	3.2	6.24	3.6	6.59
	195								0.6	5.41	1.3	5.52	1.9	5.70	2.4	5.95	2.8	6.24	3.2	6.59
	200								0.6	5.41	1.1	5.52	1.7	5.70	2.1	5.95	2.5	6.24	2.8	6.59
	205								0.5	5.41	1.0	5.52	1.5	5.70	1.9	5.95	2.2	6.24	2.4	6.59
	210								0.4	5.41	0.9	5.52	1.3	5.70	1.6	5.95	1.9	6.24	2.0	6.59
	215								0.4	5.41	0.7	5.52	1.1	5.70	1.3	5.95	1.5	6.24	1.6	6.59
	220								0.3	5.41	0.6	5.52	0.9	5.70	1.1	5.95	1.2	6.24	1.2	6.59
	225								0.2	5.41	0.5	5.52	0.7	5.70	0.8	5.95	0.9	6.24	0.8	6.59
	230								0.2	5.41	0.3	5.52	0.5	5.70	0.6	5.95	0.6	6.24	0.4	6.59
	235								0.1	5.41	0.2	5.52	0.3	5.70	0.3	5.95	0.2	6.24	0.0	6.59

Table C.33. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 6

Start Inst. Wk	Start RIT	Ending Instructional Weeks																		
		Prior Grd		Focal Grade																
		36		4		8		12		16		20		24		28		32		36
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
16	175									0.9	5.41	1.8	5.52	2.6	5.70	3.3	5.95	3.9	6.24	
	180									0.8	5.41	1.6	5.52	2.4	5.70	3.0	5.95	3.5	6.24	
	185									0.8	5.41	1.5	5.52	2.2	5.70	2.8	5.95	3.2	6.24	
	190									0.7	5.41	1.4	5.52	2.0	5.70	2.5	5.95	2.9	6.24	
	195									0.6	5.41	1.2	5.52	1.8	5.70	2.2	5.95	2.6	6.24	
	200									0.6	5.41	1.1	5.52	1.6	5.70	2.0	5.95	2.2	6.24	
	205									0.5	5.41	1.0	5.52	1.4	5.70	1.7	5.95	1.9	6.24	
	210									0.4	5.41	0.8	5.52	1.2	5.70	1.4	5.95	1.6	6.24	
	215									0.4	5.41	0.7	5.52	1.0	5.70	1.2	5.95	1.2	6.24	
	220									0.3	5.41	0.6	5.52	0.8	5.70	0.9	5.95	0.9	6.24	
	225									0.2	5.41	0.4	5.52	0.6	5.70	0.7	5.95	0.6	6.24	
	230									0.2	5.41	0.3	5.52	0.4	5.70	0.4	5.95	0.3	6.24	
	235									0.1	5.41	0.2	5.52	0.2	5.70	0.1	5.95	-0.1	6.24	
240									0.0	5.41	0.1	5.52	0.0	5.70	-0.1	5.95	-0.4	6.24		
20	175												0.9	5.41	1.7	5.52	2.4	5.70	3.0	5.95
	180												0.8	5.41	1.5	5.52	2.2	5.70	2.7	5.95
	185												0.7	5.41	1.4	5.52	2.0	5.70	2.5	5.95
	190												0.7	5.41	1.3	5.52	1.8	5.70	2.2	5.95
	195												0.6	5.41	1.1	5.52	1.6	5.70	1.9	5.95
	200												0.5	5.41	1.0	5.52	1.4	5.70	1.7	5.95
	205												0.5	5.41	0.9	5.52	1.2	5.70	1.4	5.95
	210												0.4	5.41	0.8	5.52	1.0	5.70	1.1	5.95
	215												0.3	5.41	0.6	5.52	0.8	5.70	0.9	5.95
	220												0.3	5.41	0.5	5.52	0.6	5.70	0.6	5.95
	225												0.2	5.41	0.4	5.52	0.4	5.70	0.4	5.95
	230												0.1	5.41	0.2	5.52	0.2	5.70	0.1	5.95
	235												0.1	5.41	0.1	5.52	0.0	5.70	-0.2	5.95
240												0.0	5.41	0.0	5.52	-0.2	5.70	-0.4	5.95	

Table C.34. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 7

Start Inst.	Start Wk	Start RIT	Ending Instructional Weeks																		
			Prior Grd		Focal Grade																
			36		4	8	12	16	20	24	28	32	36								
	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd			
32 (Gd 6)	175	0.6	5.42	1.3	5.55	2.1	5.77	3.0	6.05	3.9	6.41	4.8	6.81	5.7	7.26	6.6	7.75	7.4	8.26	8.1	8.80
	180	0.5	5.42	1.2	5.55	1.9	5.77	2.7	6.05	3.6	6.41	4.4	6.81	5.3	7.26	6.1	7.74	6.8	8.26	7.5	8.80
	185	0.5	5.42	1.0	5.55	1.7	5.77	2.5	6.05	3.2	6.41	4.0	6.81	4.8	7.26	5.5	7.74	6.2	8.26	6.8	8.80
	190	0.4	5.42	0.9	5.55	1.5	5.77	2.2	6.05	2.9	6.41	3.6	6.81	4.3	7.26	5.0	7.74	5.6	8.26	6.1	8.80
	195	0.3	5.42	0.8	5.55	1.3	5.77	1.9	6.05	2.6	6.41	3.2	6.81	3.9	7.26	4.5	7.74	5.0	8.26	5.5	8.80
	200	0.3	5.42	0.7	5.55	1.1	5.77	1.7	6.05	2.3	6.41	2.8	6.81	3.4	7.26	4.0	7.74	4.5	8.26	4.8	8.80
	205	0.2	5.42	0.5	5.55	0.9	5.77	1.4	6.05	1.9	6.41	2.5	6.81	3.0	7.26	3.4	7.74	3.9	8.26	4.2	8.80
	210	0.1	5.42	0.4	5.55	0.7	5.77	1.1	6.05	1.6	6.41	2.1	6.81	2.5	7.26	2.9	7.74	3.3	8.26	3.5	8.80
	215	0.1	5.42	0.3	5.55	0.5	5.77	0.9	6.05	1.3	6.41	1.7	6.81	2.1	7.26	2.4	7.74	2.7	8.26	2.9	8.80
	220	0.0	5.42	0.1	5.55	0.3	5.77	0.6	6.05	0.9	6.41	1.3	6.81	1.6	7.26	1.9	7.74	2.1	8.26	2.2	8.80
	225	-0.1	5.42	0.0	5.55	0.1	5.77	0.4	6.05	0.6	6.41	0.9	6.81	1.1	7.26	1.4	7.74	1.5	8.26	1.6	8.80
	230	-0.1	5.42	-0.1	5.55	-0.1	5.77	0.1	6.05	0.3	6.41	0.5	6.81	0.7	7.26	0.8	7.74	0.9	8.26	0.9	8.80
	235	-0.2	5.42	-0.3	5.55	-0.3	5.77	-0.2	6.05	0.0	6.41	0.1	6.81	0.2	7.26	0.3	7.74	0.3	8.26	0.3	8.80
240	-0.3	5.42	-0.4	5.55	-0.5	5.77	-0.4	6.05	-0.4	6.41	-0.3	6.81	-0.2	7.26	-0.2	7.75	-0.3	8.26	-0.4	8.80	
36 (Gd 6)	175			0.7	5.42	1.5	5.55	2.4	5.77	3.3	6.05	4.2	6.41	5.1	6.81	6.0	7.26	6.8	7.75	7.5	8.26
	180			0.6	5.42	1.4	5.55	2.2	5.77	3.0	6.05	3.9	6.41	4.7	6.81	5.5	7.26	6.3	7.74	6.9	8.26
	185			0.6	5.42	1.3	5.55	2.0	5.77	2.8	6.05	3.6	6.41	4.3	6.81	5.1	7.26	5.8	7.74	6.3	8.26
	190			0.5	5.42	1.1	5.55	1.8	5.77	2.5	6.05	3.2	6.41	3.9	6.81	4.6	7.26	5.2	7.74	5.8	8.26
	195			0.5	5.42	1.0	5.55	1.6	5.77	2.2	6.05	2.9	6.41	3.6	6.81	4.2	7.26	4.7	7.74	5.2	8.26
	200			0.4	5.42	0.9	5.55	1.4	5.77	2.0	6.05	2.6	6.41	3.2	6.81	3.7	7.26	4.2	7.74	4.6	8.26
	205			0.3	5.42	0.7	5.55	1.2	5.77	1.7	6.05	2.3	6.41	2.8	6.81	3.3	7.26	3.7	7.74	4.0	8.26
	210			0.3	5.42	0.6	5.55	1.0	5.77	1.5	6.05	1.9	6.41	2.4	6.81	2.8	7.26	3.1	7.74	3.4	8.26
	215			0.2	5.42	0.5	5.55	0.8	5.77	1.2	6.05	1.6	6.41	2.0	6.81	2.3	7.26	2.6	7.74	2.8	8.26
	220			0.1	5.42	0.3	5.55	0.6	5.77	0.9	6.05	1.3	6.41	1.6	6.81	1.9	7.26	2.1	7.74	2.2	8.26
	225			0.1	5.42	0.2	5.55	0.4	5.77	0.7	6.05	0.9	6.41	1.2	6.81	1.4	7.26	1.6	7.74	1.6	8.26
	230			0.0	5.42	0.1	5.55	0.2	5.77	0.4	6.05	0.6	6.41	0.8	6.81	1.0	7.26	1.1	7.74	1.0	8.26
	235			-0.1	5.42	-0.1	5.55	0.0	5.77	0.2	6.05	0.3	6.41	0.4	6.81	0.5	7.26	0.5	7.74	0.5	8.26
240			-0.1	5.42	-0.2	5.55	-0.2	5.77	-0.1	6.05	0.0	6.41	0.0	6.81	0.0	7.26	0.0	7.75	-0.1	8.26	
4	175					0.8	5.42	1.7	5.55	2.6	5.77	3.5	6.05	4.4	6.41	5.3	6.81	6.1	7.26	6.8	7.75
	180					0.7	5.42	1.5	5.55	2.4	5.77	3.2	6.05	4.1	6.41	4.9	6.81	5.6	7.26	6.3	7.74
	185					0.7	5.42	1.4	5.55	2.2	5.77	3.0	6.05	3.8	6.41	4.5	6.81	5.2	7.26	5.8	7.74
	190					0.6	5.42	1.3	5.55	2.0	5.77	2.7	6.05	3.4	6.41	4.1	6.81	4.7	7.26	5.2	7.74

Table C.34. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 7

Start Inst. Wk	Start RIT	Ending Instructional Weeks																		
		Prior Grd		Focal Grade																
		36		4	8	12	16	20	24	28	32	36								
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	195				0.5	5.42	1.2	5.55	1.8	5.77	2.5	6.05	3.1	6.41	3.7	6.81	4.3	7.26	4.7	7.74
	200				0.5	5.42	1.0	5.55	1.6	5.77	2.2	6.05	2.8	6.41	3.3	6.81	3.8	7.26	4.2	7.74
	205				0.4	5.42	0.9	5.55	1.4	5.77	1.9	6.05	2.5	6.41	2.9	6.81	3.3	7.26	3.7	7.74
	210				0.3	5.42	0.8	5.55	1.2	5.77	1.7	6.05	2.1	6.41	2.5	6.81	2.9	7.26	3.1	7.74
	215				0.3	5.42	0.6	5.55	1.0	5.77	1.4	6.05	1.8	6.41	2.1	6.81	2.4	7.26	2.6	7.74
	220				0.2	5.42	0.5	5.55	0.8	5.77	1.2	6.05	1.5	6.41	1.8	6.81	2.0	7.26	2.1	7.74
	225				0.2	5.42	0.4	5.55	0.6	5.77	0.9	6.05	1.1	6.41	1.4	6.81	1.5	7.26	1.6	7.74
	230				0.1	5.42	0.2	5.55	0.4	5.77	0.6	6.05	0.8	6.41	1.0	6.81	1.1	7.26	1.1	7.74
	235				0.0	5.42	0.1	5.55	0.2	5.77	0.4	6.05	0.5	6.41	0.6	6.81	0.6	7.26	0.5	7.74
	240				-0.1	5.42	0.0	5.55	0.0	5.77	0.1	6.05	0.2	6.41	0.2	6.81	0.1	7.26	0.0	7.75
8	175						0.9	5.42	1.8	5.55	2.7	5.77	3.6	6.05	4.5	6.41	5.3	6.81	6.0	7.26
	180						0.8	5.42	1.7	5.55	2.5	5.77	3.4	6.05	4.2	6.41	4.9	6.81	5.5	7.26
	185						0.7	5.42	1.5	5.55	2.3	5.77	3.1	6.05	3.8	6.41	4.5	6.81	5.1	7.26
	190						0.7	5.42	1.4	5.55	2.1	5.77	2.8	6.05	3.5	6.41	4.1	6.81	4.6	7.26
	195						0.6	5.42	1.3	5.55	1.9	5.77	2.6	6.05	3.2	6.41	3.7	6.81	4.2	7.26
	200						0.5	5.42	1.1	5.55	1.7	5.77	2.3	6.05	2.8	6.41	3.3	6.81	3.7	7.26
	205						0.5	5.42	1.0	5.55	1.5	5.77	2.0	6.05	2.5	6.41	2.9	6.81	3.3	7.26
	210						0.4	5.42	0.9	5.55	1.3	5.77	1.8	6.05	2.2	6.41	2.5	6.81	2.8	7.26
	215						0.4	5.42	0.7	5.55	1.1	5.77	1.5	6.05	1.9	6.41	2.2	6.81	2.3	7.26
	220						0.3	5.42	0.6	5.55	0.9	5.77	1.3	6.05	1.5	6.41	1.8	6.81	1.9	7.26
	225						0.2	5.42	0.5	5.55	0.7	5.77	1.0	6.05	1.2	6.41	1.4	6.81	1.4	7.26
	230						0.2	5.42	0.3	5.55	0.5	5.77	0.7	6.05	0.9	6.41	1.0	6.81	1.0	7.26
	235						0.1	5.42	0.2	5.55	0.4	5.77	0.5	6.05	0.6	6.41	0.6	6.81	0.5	7.26
240						0.0	5.42	0.1	5.55	0.2	5.77	0.2	6.05	0.2	6.41	0.2	6.81	0.1	7.26	
12	175								0.9	5.42	1.8	5.55	2.7	5.77	3.6	6.05	4.4	6.41	5.1	6.81
	180								0.8	5.42	1.7	5.55	2.5	5.77	3.4	6.05	4.1	6.41	4.7	6.81
	185								0.8	5.42	1.6	5.55	2.4	5.77	3.1	6.05	3.8	6.41	4.4	6.81
	190								0.7	5.42	1.4	5.55	2.2	5.77	2.8	6.05	3.4	6.41	4.0	6.81
	195								0.7	5.42	1.3	5.55	2.0	5.77	2.6	6.05	3.1	6.41	3.6	6.81
	200								0.6	5.42	1.2	5.55	1.8	5.77	2.3	6.05	2.8	6.41	3.2	6.81
	205								0.5	5.42	1.1	5.55	1.6	5.77	2.0	6.05	2.5	6.41	2.8	6.81
	210								0.5	5.42	0.9	5.55	1.4	5.77	1.8	6.05	2.1	6.41	2.4	6.81
	215								0.4	5.42	0.8	5.55	1.2	5.77	1.5	6.05	1.8	6.41	2.0	6.81
	220								0.3	5.42	0.7	5.55	1.0	5.77	1.3	6.05	1.5	6.41	1.6	6.81

Table C.34. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 7

Start Inst. Wk	Start RIT	Ending Instructional Weeks																
		Prior Grd		Focal Grade														
		36		4	8	12	16	20	24	28	32	36						
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	225						0.3	5.42	0.5	5.55	0.8	5.77	1.0	6.05	1.2	6.41	1.2	6.81
	230						0.2	5.42	0.4	5.55	0.6	5.77	0.7	6.05	0.8	6.41	0.8	6.81
	235						0.1	5.42	0.3	5.55	0.4	5.77	0.5	6.05	0.5	6.41	0.4	6.81
	240						0.1	5.42	0.1	5.55	0.2	5.77	0.2	6.05	0.2	6.41	0.0	6.81
16	175								0.9	5.42	1.8	5.55	2.7	5.77	3.5	6.05	4.2	6.41
	180								0.9	5.42	1.7	5.55	2.5	5.77	3.3	6.05	3.9	6.41
	185								0.8	5.42	1.6	5.55	2.3	5.77	3.0	6.05	3.6	6.41
	190								0.7	5.42	1.4	5.55	2.1	5.77	2.7	6.05	3.2	6.41
	195								0.7	5.42	1.3	5.55	1.9	5.77	2.5	6.05	2.9	6.41
	200								0.6	5.42	1.2	5.55	1.7	5.77	2.2	6.05	2.6	6.41
	205								0.5	5.42	1.1	5.55	1.5	5.77	1.9	6.05	2.3	6.41
	210								0.5	5.42	0.9	5.55	1.3	5.77	1.7	6.05	1.9	6.41
	215								0.4	5.42	0.8	5.55	1.1	5.77	1.4	6.05	1.6	6.41
	220								0.3	5.42	0.7	5.55	0.9	5.77	1.2	6.05	1.3	6.41
	225								0.3	5.42	0.5	5.55	0.7	5.77	0.9	6.05	1.0	6.41
	230								0.2	5.42	0.4	5.55	0.6	5.77	0.6	6.05	0.6	6.41
	235								0.1	5.42	0.3	5.55	0.4	5.77	0.4	6.05	0.3	6.41
	240								0.1	5.42	0.1	5.55	0.2	5.77	0.1	6.05	0.0	6.41
20	180										0.8	5.42	1.7	5.55	2.4	5.77	3.0	6.05
	185										0.8	5.42	1.5	5.55	2.2	5.77	2.8	6.05
	190										0.7	5.42	1.4	5.55	2.0	5.77	2.5	6.05
	195										0.7	5.42	1.3	5.55	1.8	5.77	2.3	6.05
	200										0.6	5.42	1.1	5.55	1.6	5.77	2.0	6.05
	205										0.5	5.42	1.0	5.55	1.4	5.77	1.7	6.05
	210										0.5	5.42	0.9	5.55	1.2	5.77	1.5	6.05
	215										0.4	5.42	0.7	5.55	1.0	5.77	1.2	6.05
	220										0.3	5.42	0.6	5.55	0.8	5.77	1.0	6.05
	225										0.3	5.42	0.5	5.55	0.6	5.77	0.7	6.05
	230										0.2	5.42	0.3	5.55	0.4	5.77	0.4	6.05
	235										0.1	5.42	0.2	5.55	0.2	5.77	0.2	6.05
240										0.1	5.42	0.1	5.55	0.0	5.77	-0.1	6.05	

Table C.35. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 7)	175	0.4	5.43	0.8	5.58	1.4	5.82	2.0	6.15	2.7	6.54	3.3	7.00	3.9	7.50	4.5	8.04	4.9	8.61	5.2	9.20
	180	0.3	5.43	0.8	5.58	1.3	5.82	1.9	6.15	2.5	6.54	3.2	7.00	3.7	7.50	4.2	8.04	4.7	8.61	4.9	9.20
	185	0.3	5.43	0.7	5.58	1.2	5.82	1.8	6.15	2.4	6.54	3.0	7.00	3.5	7.50	4.0	8.04	4.4	8.61	4.6	9.20
	190	0.3	5.43	0.7	5.58	1.1	5.82	1.7	6.15	2.2	6.54	2.8	7.00	3.3	7.50	3.8	8.04	4.1	8.61	4.3	9.20
	195	0.2	5.43	0.6	5.58	1.1	5.82	1.6	6.15	2.1	6.54	2.6	7.00	3.1	7.50	3.5	8.04	3.9	8.61	4.1	9.20
	200	0.2	5.43	0.5	5.58	1.0	5.82	1.5	6.15	2.0	6.54	2.5	7.00	2.9	7.50	3.3	8.04	3.6	8.61	3.8	9.20
	205	0.2	5.43	0.5	5.58	0.9	5.82	1.3	6.15	1.8	6.54	2.3	7.00	2.7	7.50	3.1	8.04	3.4	8.61	3.5	9.20
	210	0.2	5.43	0.4	5.58	0.8	5.82	1.2	6.15	1.7	6.54	2.1	7.00	2.5	7.50	2.9	8.04	3.1	8.61	3.2	9.20
	215	0.1	5.43	0.4	5.58	0.7	5.82	1.1	6.15	1.5	6.54	1.9	7.00	2.3	7.50	2.6	8.04	2.8	8.61	2.9	9.20
	220	0.1	5.43	0.3	5.58	0.6	5.82	1.0	6.15	1.4	6.54	1.8	7.00	2.1	7.50	2.4	8.04	2.6	8.61	2.6	9.20
	225	0.1	5.43	0.3	5.58	0.5	5.82	0.9	6.15	1.2	6.54	1.6	7.00	1.9	7.50	2.2	8.04	2.3	8.61	2.3	9.20
	230	0.0	5.43	0.2	5.58	0.5	5.82	0.8	6.15	1.1	6.54	1.4	7.00	1.7	7.50	1.9	8.04	2.1	8.61	2.0	9.20
	235	0.0	5.43	0.1	5.58	0.4	5.82	0.6	6.15	0.9	6.54	1.2	7.00	1.5	7.50	1.7	8.04	1.8	8.61	1.7	9.20
	240	0.0	5.43	0.1	5.58	0.3	5.82	0.5	6.15	0.8	6.54	1.1	7.00	1.3	7.50	1.5	8.04	1.5	8.61	1.5	9.20
245	-0.1	5.43	0.0	5.58	0.2	5.82	0.4	6.15	0.7	6.54	0.9	7.00	1.1	7.50	1.2	8.04	1.3	8.61	1.2	9.20	
36 (Gd 7)	175			0.5	5.43	1.0	5.58	1.7	5.82	2.3	6.15	3.0	6.54	3.6	7.00	4.1	7.50	4.6	8.04	4.9	8.61
	180			0.5	5.43	1.0	5.58	1.6	5.82	2.2	6.15	2.8	6.54	3.4	7.00	3.9	7.50	4.3	8.04	4.6	8.61
	185			0.4	5.43	0.9	5.58	1.5	5.82	2.1	6.15	2.7	6.54	3.2	7.00	3.7	7.50	4.1	8.04	4.3	8.61
	190			0.4	5.43	0.9	5.58	1.4	5.82	2.0	6.15	2.5	6.54	3.1	7.00	3.5	7.50	3.9	8.04	4.1	8.61
	195			0.4	5.43	0.8	5.58	1.3	5.82	1.9	6.15	2.4	6.54	2.9	7.00	3.3	7.50	3.6	8.04	3.8	8.61
	200			0.3	5.43	0.8	5.58	1.2	5.82	1.7	6.15	2.3	6.54	2.7	7.00	3.1	7.50	3.4	8.04	3.6	8.61
	205			0.3	5.43	0.7	5.58	1.2	5.82	1.6	6.15	2.1	6.54	2.5	7.00	2.9	7.50	3.2	8.04	3.3	8.61
	210			0.3	5.43	0.6	5.58	1.1	5.82	1.5	6.15	2.0	6.54	2.4	7.00	2.7	7.50	2.9	8.04	3.0	8.61
	215			0.3	5.43	0.6	5.58	1.0	5.82	1.4	6.15	1.8	6.54	2.2	7.00	2.5	7.50	2.7	8.04	2.8	8.61
	220			0.2	5.43	0.5	5.58	0.9	5.82	1.3	6.15	1.7	6.54	2.0	7.00	2.3	7.50	2.5	8.04	2.5	8.61
	225			0.2	5.43	0.5	5.58	0.8	5.82	1.2	6.15	1.5	6.54	1.8	7.00	2.1	7.50	2.2	8.04	2.3	8.61
	230			0.2	5.43	0.4	5.58	0.7	5.82	1.1	6.15	1.4	6.54	1.7	7.00	1.9	7.50	2.0	8.04	2.0	8.61
	235			0.1	5.43	0.4	5.58	0.6	5.82	0.9	6.15	1.2	6.54	1.5	7.00	1.7	7.50	1.8	8.04	1.7	8.61
	240			0.1	5.43	0.3	5.58	0.5	5.82	0.8	6.15	1.1	6.54	1.3	7.00	1.5	7.50	1.6	8.04	1.5	8.61
245			0.1	5.43	0.2	5.58	0.5	5.82	0.7	6.15	1.0	6.54	1.2	7.00	1.3	7.50	1.3	8.04	1.2	8.61	
4	180					0.5	5.43	1.1	5.58	1.8	5.82	2.4	6.15	3.0	6.54	3.5	7.00	3.9	7.50	4.2	8.04
	185					0.5	5.43	1.1	5.58	1.7	5.82	2.3	6.15	2.8	6.54	3.3	7.00	3.7	7.50	3.9	8.04

Table C.35. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																				
		Prior Grd		Focal Grade																		
		36		4	8	12	16	20	24	28	32	36										
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	190				0.5	5.43	1.0	5.58	1.6	5.82	2.1	6.15	2.7	6.54	3.1	7.00	3.5	7.50	3.7	8.04		
	195				0.5	5.43	1.0	5.58	1.5	5.82	2.0	6.15	2.5	6.54	2.9	7.00	3.3	7.50	3.5	8.04		
	200				0.4	5.43	0.9	5.58	1.4	5.82	1.9	6.15	2.4	6.54	2.8	7.00	3.1	7.50	3.2	8.04		
	205				0.4	5.43	0.9	5.58	1.3	5.82	1.8	6.15	2.2	6.54	2.6	7.00	2.9	7.50	3.0	8.04		
	210				0.4	5.43	0.8	5.58	1.2	5.82	1.7	6.15	2.1	6.54	2.4	7.00	2.7	7.50	2.8	8.04		
	215				0.3	5.43	0.7	5.58	1.2	5.82	1.6	6.15	1.9	6.54	2.3	7.00	2.5	7.50	2.5	8.04		
	220				0.3	5.43	0.7	5.58	1.1	5.82	1.5	6.15	1.8	6.54	2.1	7.00	2.3	7.50	2.3	8.04		
	225				0.3	5.43	0.6	5.58	1.0	5.82	1.3	6.15	1.7	6.54	1.9	7.00	2.1	7.50	2.1	8.04		
	230				0.3	5.43	0.6	5.58	0.9	5.82	1.2	6.15	1.5	6.54	1.7	7.00	1.9	7.50	1.8	8.04		
	235				0.2	5.43	0.5	5.58	0.8	5.82	1.1	6.15	1.4	6.54	1.6	7.00	1.7	7.50	1.6	8.04		
	240				0.2	5.43	0.4	5.58	0.7	5.82	1.0	6.15	1.2	6.54	1.4	7.00	1.5	7.50	1.4	8.04		
	245				0.2	5.43	0.4	5.58	0.6	5.82	0.9	6.15	1.1	6.54	1.2	7.00	1.2	7.50	1.1	8.04		
8	180						0.6	5.43	1.2	5.58	1.8	5.82	2.4	6.15	2.9	6.54	3.3	7.00	3.6	7.50		
	185						0.6	5.43	1.2	5.58	1.8	5.82	2.3	6.15	2.8	6.54	3.2	7.00	3.4	7.50		
	190						0.5	5.43	1.1	5.58	1.7	5.82	2.2	6.15	2.6	6.54	3.0	7.00	3.2	7.50		
	195						0.5	5.43	1.1	5.58	1.6	5.82	2.1	6.15	2.5	6.54	2.8	7.00	3.0	7.50		
	200						0.5	5.43	1.0	5.58	1.5	5.82	2.0	6.15	2.4	6.54	2.6	7.00	2.8	7.50		
	205						0.5	5.43	0.9	5.58	1.4	5.82	1.8	6.15	2.2	6.54	2.5	7.00	2.6	7.50		
	210						0.4	5.43	0.9	5.58	1.3	5.82	1.7	6.15	2.1	6.54	2.3	7.00	2.4	7.50		
	215						0.4	5.43	0.8	5.58	1.2	5.82	1.6	6.15	1.9	6.54	2.1	7.00	2.2	7.50		
	220						0.4	5.43	0.8	5.58	1.1	5.82	1.5	6.15	1.8	6.54	2.0	7.00	2.0	7.50		
	225						0.3	5.43	0.7	5.58	1.1	5.82	1.4	6.15	1.6	6.54	1.8	7.00	1.8	7.50		
	230						0.3	5.43	0.6	5.58	1.0	5.82	1.3	6.15	1.5	6.54	1.6	7.00	1.6	7.50		
	235						0.3	5.43	0.6	5.58	0.9	5.82	1.2	6.15	1.3	6.54	1.4	7.00	1.4	7.50		
	240						0.3	5.43	0.5	5.58	0.8	5.82	1.0	6.15	1.2	6.54	1.3	7.00	1.2	7.50		
	245						0.2	5.43	0.5	5.58	0.7	5.82	0.9	6.15	1.1	6.54	1.1	7.00	1.0	7.50		
12	180								0.6	5.43	1.2	5.58	1.8	5.82	2.3	6.15	2.7	6.54	3.0	7.00		
	185								0.6	5.43	1.2	5.58	1.7	5.82	2.2	6.15	2.6	6.54	2.8	7.00		
	190								0.6	5.43	1.1	5.58	1.7	5.82	2.1	6.15	2.5	6.54	2.7	7.00		
	195								0.5	5.43	1.1	5.58	1.6	5.82	2.0	6.15	2.3	6.54	2.5	7.00		
	200								0.5	5.43	1.0	5.58	1.5	5.82	1.9	6.15	2.2	6.54	2.3	7.00		
	205								0.5	5.43	1.0	5.58	1.4	5.82	1.8	6.15	2.0	6.54	2.2	7.00		
	210								0.5	5.43	0.9	5.58	1.3	5.82	1.6	6.15	1.9	6.54	2.0	7.00		
	215								0.4	5.43	0.8	5.58	1.2	5.82	1.5	6.15	1.7	6.54	1.8	7.00		

Table C.35. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	220							0.4	5.43	0.8	5.58	1.1	5.82	1.4	6.15	1.6	6.54	1.6	7.00		
	225							0.4	5.43	0.7	5.58	1.0	5.82	1.3	6.15	1.4	6.54	1.5	7.00		
	230							0.3	5.43	0.7	5.58	1.0	5.82	1.2	6.15	1.3	6.54	1.3	7.00		
	235							0.3	5.43	0.6	5.58	0.9	5.82	1.1	6.15	1.2	6.54	1.1	7.00		
	240							0.3	5.43	0.6	5.58	0.8	5.82	0.9	6.15	1.0	6.54	0.9	7.00		
	245							0.3	5.43	0.5	5.58	0.7	5.82	0.8	6.15	0.9	6.54	0.8	7.00		
16	180									0.6	5.43	1.2	5.58	1.7	5.82	2.1	6.15	2.4	6.54		
	185									0.6	5.43	1.1	5.58	1.6	5.82	2.0	6.15	2.3	6.54		
	190									0.6	5.43	1.1	5.58	1.5	5.82	1.9	6.15	2.1	6.54		
	195									0.5	5.43	1.0	5.58	1.5	5.82	1.8	6.15	2.0	6.54		
	200									0.5	5.43	1.0	5.58	1.4	5.82	1.7	6.15	1.8	6.54		
	205									0.5	5.43	0.9	5.58	1.3	5.82	1.5	6.15	1.7	6.54		
	210									0.4	5.43	0.9	5.58	1.2	5.82	1.4	6.15	1.5	6.54		
	215									0.4	5.43	0.8	5.58	1.1	5.82	1.3	6.15	1.4	6.54		
	220									0.4	5.43	0.7	5.58	1.0	5.82	1.2	6.15	1.2	6.54		
	225									0.4	5.43	0.7	5.58	0.9	5.82	1.1	6.15	1.1	6.54		
	230									0.3	5.43	0.6	5.58	0.8	5.82	1.0	6.15	1.0	6.54		
	235									0.3	5.43	0.6	5.58	0.8	5.82	0.8	6.15	0.8	6.54		
	240									0.3	5.43	0.5	5.58	0.7	5.82	0.7	6.15	0.7	6.54		
245									0.2	5.43	0.5	5.58	0.6	5.82	0.6	6.15	0.5	6.54			
20	180											0.6	5.43	1.1	5.58	1.5	5.82	1.8	6.15		
	185											0.6	5.43	1.0	5.58	1.4	5.82	1.7	6.15		
	190											0.5	5.43	1.0	5.58	1.3	5.82	1.5	6.15		
	195											0.5	5.43	0.9	5.58	1.2	5.82	1.4	6.15		
	200											0.5	5.43	0.9	5.58	1.2	5.82	1.3	6.15		
	205											0.4	5.43	0.8	5.58	1.1	5.82	1.2	6.15		
	210											0.4	5.43	0.7	5.58	1.0	5.82	1.1	6.15		
	215											0.4	5.43	0.7	5.58	0.9	5.82	1.0	6.15		
	220											0.4	5.43	0.6	5.58	0.8	5.82	0.9	6.15		
	225											0.3	5.43	0.6	5.58	0.7	5.82	0.7	6.15		
	230											0.3	5.43	0.5	5.58	0.6	5.82	0.6	6.15		
	235											0.3	5.43	0.5	5.58	0.6	5.82	0.5	6.15		
	240											0.2	5.43	0.4	5.58	0.5	5.82	0.4	6.15		
245											0.2	5.43	0.3	5.58	0.4	5.82	0.3	6.15			

Table C.36. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 8)	180	0.1	5.43	0.2	5.58	0.4	5.82	0.6	6.14	0.9	6.53	1.2	6.98	1.6	7.48	2.0	8.01	2.3	8.57	2.7	9.16
	185	0.1	5.43	0.2	5.58	0.3	5.82	0.6	6.14	0.8	6.53	1.1	6.98	1.5	7.48	1.8	8.01	2.2	8.57	2.5	9.16
	190	0.0	5.43	0.1	5.58	0.3	5.82	0.5	6.14	0.7	6.53	1.0	6.98	1.3	7.48	1.7	8.01	2.0	8.57	2.3	9.16
	195	0.0	5.43	0.1	5.58	0.2	5.82	0.4	6.14	0.6	6.53	0.9	6.98	1.2	7.48	1.5	8.01	1.8	8.57	2.1	9.16
	200	0.0	5.43	0.0	5.58	0.2	5.82	0.3	6.14	0.5	6.53	0.8	6.98	1.1	7.47	1.3	8.01	1.6	8.57	1.9	9.16
	205	0.0	5.43	0.0	5.58	0.1	5.82	0.3	6.14	0.4	6.53	0.7	6.98	0.9	7.47	1.2	8.01	1.5	8.57	1.8	9.16
	210	-0.1	5.43	0.0	5.58	0.0	5.82	0.2	6.14	0.3	6.53	0.5	6.98	0.8	7.47	1.0	8.01	1.3	8.57	1.6	9.16
	215	-0.1	5.43	-0.1	5.58	0.0	5.82	0.1	6.14	0.2	6.53	0.4	6.98	0.6	7.47	0.9	8.01	1.1	8.57	1.4	9.16
	220	-0.1	5.43	-0.1	5.58	-0.1	5.82	0.0	6.14	0.1	6.53	0.3	6.98	0.5	7.47	0.7	8.01	0.9	8.57	1.2	9.16
	225	-0.1	5.43	-0.2	5.58	-0.1	5.82	-0.1	6.14	0.1	6.53	0.2	6.98	0.4	7.47	0.6	8.01	0.8	8.57	1.0	9.16
	230	-0.1	5.43	-0.2	5.58	-0.2	5.82	-0.1	6.14	-0.1	6.53	0.1	6.98	0.2	7.48	0.4	8.01	0.6	8.57	0.8	9.16
	235	-0.2	5.43	-0.2	5.58	-0.3	5.82	-0.2	6.14	-0.2	6.53	0.0	6.98	0.1	7.48	0.3	8.01	0.4	8.57	0.6	9.16
	240	-0.2	5.43	-0.3	5.58	-0.3	5.82	-0.3	6.14	-0.3	6.53	-0.2	6.98	0.0	7.48	0.1	8.01	0.2	8.57	0.4	9.16
245	-0.2	5.43	-0.3	5.58	-0.4	5.82	-0.4	6.14	-0.3	6.53	-0.3	6.98	-0.2	7.48	-0.1	8.01	0.1	8.57	0.2	9.16	
250	-0.2	5.43	-0.3	5.58	-0.4	5.82	-0.5	6.14	-0.4	6.53	-0.4	6.98	-0.3	7.48	-0.2	8.01	-0.1	8.57	0.0	9.16	
36 (Gd 8)	180			0.1	5.43	0.3	5.58	0.6	5.82	0.9	6.14	1.2	6.53	1.5	6.98	1.9	7.48	2.3	8.01	2.7	8.57
	185			0.1	5.43	0.3	5.58	0.5	5.82	0.8	6.14	1.1	6.53	1.4	6.98	1.8	7.48	2.1	8.01	2.5	8.57
	190			0.1	5.43	0.3	5.58	0.5	5.82	0.7	6.14	1.0	6.53	1.3	6.98	1.6	7.48	2.0	8.01	2.3	8.57
	195			0.1	5.43	0.2	5.58	0.4	5.82	0.6	6.14	0.9	6.53	1.2	6.98	1.5	7.48	1.8	8.01	2.1	8.57
	200			0.1	5.43	0.2	5.58	0.3	5.82	0.5	6.14	0.8	6.53	1.1	6.98	1.4	7.47	1.7	8.01	2.0	8.57
	205			0.0	5.43	0.1	5.58	0.3	5.82	0.5	6.14	0.7	6.53	0.9	6.98	1.2	7.47	1.5	8.01	1.8	8.57
	210			0.0	5.43	0.1	5.58	0.2	5.82	0.4	6.14	0.6	6.53	0.8	6.98	1.1	7.47	1.3	8.01	1.6	8.57
	215			0.0	5.43	0.1	5.58	0.2	5.82	0.3	6.14	0.5	6.53	0.7	6.98	0.9	7.47	1.2	8.01	1.4	8.57
	220			0.0	5.43	0.0	5.58	0.1	5.82	0.2	6.14	0.4	6.53	0.6	6.98	0.8	7.47	1.0	8.01	1.3	8.57
	225			0.0	5.43	0.0	5.58	0.0	5.82	0.2	6.14	0.3	6.53	0.5	6.98	0.7	7.47	0.9	8.01	1.1	8.57
	230			-0.1	5.43	-0.1	5.58	0.0	5.82	0.1	6.14	0.2	6.53	0.4	6.98	0.5	7.48	0.7	8.01	0.9	8.57
	235			-0.1	5.43	-0.1	5.58	-0.1	5.82	0.0	6.14	0.1	6.53	0.2	6.98	0.4	7.48	0.6	8.01	0.7	8.57
	240			-0.1	5.43	-0.1	5.58	-0.1	5.82	-0.1	6.14	0.0	6.53	0.1	6.98	0.3	7.48	0.4	8.01	0.6	8.57
245			-0.1	5.43	-0.2	5.58	-0.2	5.82	-0.2	6.14	-0.1	6.53	0.0	6.98	0.1	7.48	0.3	8.01	0.4	8.57	
4	180					0.2	5.43	0.4	5.58	0.7	5.82	1.0	6.14	1.4	6.53	1.8	6.98	2.1	7.48	2.5	8.01
	185					0.2	5.43	0.4	5.58	0.7	5.82	1.0	6.14	1.3	6.53	1.6	6.98	2.0	7.48	2.4	8.01
	190					0.2	5.43	0.4	5.58	0.6	5.82	0.9	6.14	1.2	6.53	1.5	6.98	1.9	7.48	2.2	8.01

Table C.36. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	195					0.1	5.43	0.3	5.58	0.6	5.82	0.8	6.14	1.1	6.53	1.4	6.98	1.7	7.48	2.1	8.01
	200					0.1	5.43	0.3	5.58	0.5	5.82	0.7	6.14	1.0	6.53	1.3	6.98	1.6	7.47	1.9	8.01
	205					0.1	5.43	0.2	5.58	0.4	5.82	0.7	6.14	0.9	6.53	1.2	6.98	1.5	7.47	1.7	8.01
	210					0.1	5.43	0.2	5.58	0.4	5.82	0.6	6.14	0.8	6.53	1.1	6.98	1.3	7.47	1.6	8.01
	215					0.1	5.43	0.2	5.58	0.3	5.82	0.5	6.14	0.7	6.53	0.9	6.98	1.2	7.47	1.4	8.01
	220					0.0	5.43	0.1	5.58	0.3	5.82	0.4	6.14	0.6	6.53	0.8	6.98	1.1	7.47	1.3	8.01
	225					0.0	5.43	0.1	5.58	0.2	5.82	0.3	6.14	0.5	6.53	0.7	6.98	0.9	7.47	1.1	8.01
	230					0.0	5.43	0.1	5.58	0.1	5.82	0.3	6.14	0.4	6.53	0.6	6.98	0.8	7.48	1.0	8.01
	235					0.0	5.43	0.0	5.58	0.1	5.82	0.2	6.14	0.3	6.53	0.5	6.98	0.6	7.48	0.8	8.01
	240					0.0	5.43	0.0	5.58	0.0	5.82	0.1	6.14	0.2	6.53	0.4	6.98	0.5	7.48	0.7	8.01
	245					-0.1	5.43	-0.1	5.58	0.0	5.82	0.0	6.14	0.1	6.53	0.2	6.98	0.4	7.48	0.5	8.01
8	180							0.2	5.43	0.5	5.58	0.9	5.82	1.2	6.14	1.6	6.53	2.0	6.98	2.3	7.48
	185							0.2	5.43	0.5	5.58	0.8	5.82	1.1	6.14	1.5	6.53	1.8	6.98	2.2	7.48
	190							0.2	5.43	0.5	5.58	0.7	5.82	1.0	6.14	1.4	6.53	1.7	6.98	2.1	7.48
	195							0.2	5.43	0.4	5.58	0.7	5.82	1.0	6.14	1.3	6.53	1.6	6.98	1.9	7.48
	200							0.2	5.43	0.4	5.58	0.6	5.82	0.9	6.14	1.2	6.53	1.5	6.98	1.8	7.47
	205							0.2	5.43	0.3	5.58	0.6	5.82	0.8	6.14	1.1	6.53	1.4	6.98	1.7	7.47
	210							0.1	5.43	0.3	5.58	0.5	5.82	0.7	6.14	1.0	6.53	1.3	6.98	1.5	7.47
	215							0.1	5.43	0.3	5.58	0.4	5.82	0.7	6.14	0.9	6.53	1.1	6.98	1.4	7.47
	220							0.1	5.43	0.2	5.58	0.4	5.82	0.6	6.14	0.8	6.53	1.0	6.98	1.2	7.47
	225							0.1	5.43	0.2	5.58	0.3	5.82	0.5	6.14	0.7	6.53	0.9	6.98	1.1	7.47
	230							0.1	5.43	0.1	5.58	0.3	5.82	0.4	6.14	0.6	6.53	0.8	6.98	1.0	7.48
	235							0.0	5.43	0.1	5.58	0.2	5.82	0.3	6.14	0.5	6.53	0.7	6.98	0.8	7.48
	240							0.0	5.43	0.1	5.58	0.2	5.82	0.3	6.14	0.4	6.53	0.6	6.98	0.7	7.48
	245							0.0	5.43	0.0	5.58	0.1	5.82	0.2	6.14	0.3	6.53	0.4	6.98	0.6	7.48
12	180									0.3	5.43	0.6	5.58	1.0	5.82	1.3	6.14	1.7	6.53	2.1	6.98
	185									0.3	5.43	0.6	5.58	0.9	5.82	1.3	6.14	1.6	6.53	2.0	6.98
	190									0.3	5.43	0.5	5.58	0.8	5.82	1.2	6.14	1.5	6.53	1.9	6.98
	195									0.2	5.43	0.5	5.58	0.8	5.82	1.1	6.14	1.4	6.53	1.7	6.98
	200									0.2	5.43	0.5	5.58	0.7	5.82	1.0	6.14	1.3	6.53	1.6	6.98
	205									0.2	5.43	0.4	5.58	0.7	5.82	0.9	6.14	1.2	6.53	1.5	6.98
	210									0.2	5.43	0.4	5.58	0.6	5.82	0.9	6.14	1.1	6.53	1.4	6.98
	215									0.2	5.43	0.3	5.58	0.6	5.82	0.8	6.14	1.0	6.53	1.3	6.98
	220									0.1	5.43	0.3	5.58	0.5	5.82	0.7	6.14	0.9	6.53	1.2	6.98

Table C.36. Means (M) and Standard Deciations (sd) of Acedemic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	225							0.1	5.43	0.3	5.58	0.4	5.82	0.6	6.14	0.8	6.53	1.0	6.98		
	230							0.1	5.43	0.2	5.58	0.4	5.82	0.6	6.14	0.7	6.53	0.9	6.98		
	235							0.1	5.43	0.2	5.58	0.3	5.82	0.5	6.14	0.6	6.53	0.8	6.98		
	240							0.1	5.43	0.1	5.58	0.3	5.82	0.4	6.14	0.5	6.53	0.7	6.98		
	245							0.0	5.43	0.1	5.58	0.2	5.82	0.3	6.14	0.4	6.53	0.6	6.98		
	250							0.0	5.43	0.1	5.58	0.1	5.82	0.2	6.14	0.3	6.53	0.5	6.98		
16	180									0.3	5.43	0.7	5.58	1.0	5.82	1.4	6.14	1.8	6.53		
	185									0.3	5.43	0.6	5.58	1.0	5.82	1.3	6.14	1.7	6.53		
	190									0.3	5.43	0.6	5.58	0.9	5.82	1.3	6.14	1.6	6.53		
	195									0.3	5.43	0.6	5.58	0.9	5.82	1.2	6.14	1.5	6.53		
	200									0.2	5.43	0.5	5.58	0.8	5.82	1.1	6.14	1.4	6.53		
	205									0.2	5.43	0.5	5.58	0.8	5.82	1.0	6.14	1.3	6.53		
	210									0.2	5.43	0.4	5.58	0.7	5.82	1.0	6.14	1.2	6.53		
	215									0.2	5.43	0.4	5.58	0.6	5.82	0.9	6.14	1.1	6.53		
	220									0.2	5.43	0.4	5.58	0.6	5.82	0.8	6.14	1.0	6.53		
	225									0.2	5.43	0.3	5.58	0.5	5.82	0.7	6.14	0.9	6.53		
	230									0.1	5.43	0.3	5.58	0.5	5.82	0.6	6.14	0.8	6.53		
	235									0.1	5.43	0.2	5.58	0.4	5.82	0.6	6.14	0.7	6.53		
	240									0.1	5.43	0.2	5.58	0.3	5.82	0.5	6.14	0.6	6.53		
	245									0.1	5.43	0.2	5.58	0.3	5.82	0.4	6.14	0.5	6.53		
250									0.1	5.43	0.1	5.58	0.2	5.82	0.3	6.14	0.4	6.53			
20	180											0.4	5.43	0.7	5.58	1.1	5.82	1.5	6.14		
	185											0.3	5.43	0.7	5.58	1.0	5.82	1.4	6.14		
	190											0.3	5.43	0.6	5.58	1.0	5.82	1.3	6.14		
	195											0.3	5.43	0.6	5.58	0.9	5.82	1.2	6.14		
	200											0.3	5.43	0.6	5.58	0.9	5.82	1.2	6.14		
	205											0.3	5.43	0.5	5.58	0.8	5.82	1.1	6.14		
	210											0.2	5.43	0.5	5.58	0.8	5.82	1.0	6.14		
	215											0.2	5.43	0.4	5.58	0.7	5.82	0.9	6.14		
	220											0.2	5.43	0.4	5.58	0.6	5.82	0.9	6.14		
	225											0.2	5.43	0.4	5.58	0.6	5.82	0.8	6.14		
	230											0.2	5.43	0.3	5.58	0.5	5.82	0.7	6.14		
	235											0.1	5.43	0.3	5.58	0.5	5.82	0.6	6.14		
	240											0.1	5.43	0.3	5.58	0.4	5.82	0.5	6.14		

Table C.36. Means (M) and Standard Deciations (sd) of Acedemic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	245											0.1	5.43	0.2	5.58	0.3	5.82	0.5	6.14		
	250											0.1	5.43	0.2	5.58	0.3	5.82	0.4	6.14		

Table C.37. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 10

Start Inst.	Start Wk	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
RIT	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
32 (Gd 9)	180	0.4	5.44	0.8	5.65	1.3	5.98	1.9	6.41	2.4	6.93	3.0	7.51	3.5	8.14	4.1	8.82	4.6	9.52	5.0	10.26
	185	0.3	5.44	0.7	5.65	1.2	5.98	1.7	6.41	2.2	6.93	2.7	7.51	3.2	8.14	3.7	8.82	4.1	9.52	4.6	10.26
	190	0.3	5.44	0.7	5.65	1.1	5.98	1.5	6.41	1.9	6.93	2.4	7.51	2.9	8.14	3.3	8.82	3.7	9.52	4.1	10.26
	195	0.3	5.44	0.6	5.65	0.9	5.98	1.3	6.41	1.7	6.93	2.1	7.51	2.5	8.14	2.9	8.82	3.3	9.52	3.6	10.26
	200	0.2	5.44	0.5	5.65	0.8	5.98	1.1	6.41	1.5	6.93	1.8	7.51	2.2	8.14	2.6	8.82	2.9	9.52	3.1	10.26
	205	0.2	5.44	0.4	5.65	0.6	5.98	0.9	6.41	1.2	6.93	1.6	7.51	1.9	8.14	2.2	8.82	2.4	9.52	2.7	10.26
	210	0.1	5.44	0.3	5.65	0.5	5.98	0.7	6.41	1.0	6.92	1.3	7.51	1.5	8.14	1.8	8.82	2.0	9.52	2.2	10.26
	215	0.1	5.44	0.2	5.65	0.3	5.98	0.5	6.41	0.8	6.92	1.0	7.51	1.2	8.14	1.4	8.82	1.6	9.52	1.7	10.26
	220	0.0	5.44	0.1	5.65	0.2	5.98	0.3	6.41	0.5	6.92	0.7	7.51	0.9	8.14	1.0	8.82	1.2	9.52	1.2	10.26
	225	0.0	5.44	0.0	5.65	0.1	5.98	0.2	6.41	0.3	6.93	0.4	7.51	0.5	8.14	0.7	8.82	0.7	9.52	0.8	10.26
	230	-0.1	5.44	-0.1	5.65	-0.1	5.98	0.0	6.41	0.0	6.93	0.1	7.51	0.2	8.14	0.3	8.82	0.3	9.52	0.3	10.26
	235	-0.1	5.44	-0.2	5.65	-0.2	5.98	-0.2	6.41	-0.2	6.93	-0.2	7.51	-0.1	8.14	-0.1	8.82	-0.1	9.52	-0.2	10.26
	240	-0.2	5.44	-0.3	5.65	-0.4	5.98	-0.4	6.41	-0.4	6.93	-0.4	7.51	-0.5	8.14	-0.5	8.82	-0.5	9.52	-0.7	10.26
	245	-0.2	5.44	-0.4	5.65	-0.5	5.98	-0.6	6.41	-0.7	6.93	-0.7	7.51	-0.8	8.14	-0.9	8.82	-1.0	9.52	-1.1	10.26
250	-0.3	5.44	-0.5	5.65	-0.7	5.98	-0.8	6.41	-0.9	6.93	-1.0	7.51	-1.1	8.14	-1.2	8.82	-1.4	9.52	-1.6	10.26	
36 (Gd 9)	180			0.5	5.44	0.9	5.65	1.5	5.98	2.0	6.41	2.6	6.93	3.1	7.51	3.7	8.14	4.2	8.82	4.6	9.52
	185			0.4	5.44	0.9	5.65	1.3	5.98	1.8	6.41	2.4	6.93	2.9	7.51	3.3	8.14	3.8	8.82	4.2	9.52
	190			0.4	5.44	0.8	5.65	1.2	5.98	1.6	6.41	2.1	6.93	2.6	7.51	3.0	8.14	3.4	8.82	3.8	9.52
	195			0.3	5.44	0.7	5.65	1.1	5.98	1.5	6.41	1.9	6.93	2.3	7.51	2.7	8.14	3.0	8.82	3.4	9.52
	200			0.3	5.44	0.6	5.65	0.9	5.98	1.3	6.41	1.6	6.93	2.0	7.51	2.4	8.14	2.7	8.82	2.9	9.52
	205			0.2	5.44	0.5	5.65	0.8	5.98	1.1	6.41	1.4	6.93	1.7	7.51	2.0	8.14	2.3	8.82	2.5	9.52
	210			0.2	5.44	0.4	5.65	0.6	5.98	0.9	6.41	1.2	6.92	1.4	7.51	1.7	8.14	1.9	8.82	2.1	9.52
	215			0.1	5.44	0.3	5.65	0.5	5.98	0.7	6.41	0.9	6.92	1.2	7.51	1.4	8.14	1.5	8.82	1.7	9.52
	220			0.1	5.44	0.2	5.65	0.3	5.98	0.5	6.41	0.7	6.92	0.9	7.51	1.0	8.14	1.2	8.82	1.2	9.52
	225			0.0	5.44	0.1	5.65	0.2	5.98	0.3	6.41	0.5	6.92	0.6	7.51	0.7	8.14	0.8	8.82	0.8	9.52
	230			0.0	5.44	0.0	5.65	0.1	5.98	0.1	6.41	0.2	6.93	0.3	7.51	0.4	8.14	0.4	8.82	0.4	9.52
	235			-0.1	5.44	-0.1	5.65	-0.1	5.98	-0.1	6.41	0.0	6.93	0.0	7.51	0.0	8.14	0.0	8.82	0.0	9.52
	240			-0.1	5.44	-0.2	5.65	-0.2	5.98	-0.3	6.41	-0.3	6.93	-0.3	7.51	-0.3	8.14	-0.4	8.82	-0.5	9.52
	245			-0.2	5.44	-0.3	5.65	-0.4	5.98	-0.4	6.41	-0.5	6.93	-0.6	7.51	-0.6	8.14	-0.7	8.82	-0.9	9.52
250			-0.2	5.44	-0.4	5.65	-0.5	5.98	-0.6	6.41	-0.7	6.93	-0.8	7.51	-1.0	8.14	-1.1	8.82	-1.3	9.52	
4	180					0.5	5.44	1.0	5.65	1.6	5.98	2.1	6.41	2.7	6.93	3.2	7.51	3.7	8.14	4.2	8.82
	185					0.5	5.44	0.9	5.65	1.4	5.98	1.9	6.41	2.5	6.93	2.9	7.51	3.4	8.14	3.8	8.82

Table C.37. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																				
		Prior Grd		Focal Grade																		
		36		4	8	12	16	20	24	28	32	36										
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	190				0.4	5.44	0.8	5.65	1.3	5.98	1.8	6.41	2.2	6.93	2.7	7.51	3.1	8.14	3.4	8.82		
	195				0.4	5.44	0.7	5.65	1.2	5.98	1.6	6.41	2.0	6.93	2.4	7.51	2.7	8.14	3.1	8.82		
	200				0.3	5.44	0.7	5.65	1.0	5.98	1.4	6.41	1.7	6.93	2.1	7.51	2.4	8.14	2.7	8.82		
	205				0.3	5.44	0.6	5.65	0.9	5.98	1.2	6.41	1.5	6.93	1.8	7.51	2.1	8.14	2.3	8.82		
	210				0.2	5.44	0.5	5.65	0.7	5.98	1.0	6.41	1.3	6.92	1.5	7.51	1.7	8.14	1.9	8.82		
	215				0.2	5.44	0.4	5.65	0.6	5.98	0.8	6.41	1.0	6.92	1.2	7.51	1.4	8.14	1.5	8.82		
	220				0.1	5.44	0.3	5.65	0.4	5.98	0.6	6.41	0.8	6.92	1.0	7.51	1.1	8.14	1.2	8.82		
	225				0.1	5.44	0.2	5.65	0.3	5.98	0.4	6.41	0.6	6.92	0.7	7.51	0.8	8.14	0.8	8.82		
	230				0.0	5.44	0.1	5.65	0.2	5.98	0.2	6.41	0.3	6.93	0.4	7.51	0.4	8.14	0.4	8.82		
	235				0.0	5.44	0.0	5.65	0.0	5.98	0.1	6.41	0.1	6.93	0.1	7.51	0.1	8.14	0.0	8.82		
	240				-0.1	5.44	-0.1	5.65	-0.1	5.98	-0.1	6.41	-0.2	6.93	-0.2	7.51	-0.2	8.14	-0.4	8.82		
	245				-0.1	5.44	-0.2	5.65	-0.3	5.98	-0.3	6.41	-0.4	6.93	-0.5	7.51	-0.6	8.14	-0.7	8.82		
	250				-0.2	5.44	-0.3	5.65	-0.4	5.98	-0.5	6.41	-0.6	6.93	-0.8	7.51	-0.9	8.14	-1.1	8.82		
8	180						0.5	5.44	1.1	5.65	1.6	5.98	2.2	6.41	2.7	6.93	3.2	7.51	3.7	8.14		
	185						0.5	5.44	1.0	5.65	1.5	5.98	2.0	6.41	2.5	6.93	3.0	7.51	3.4	8.14		
	190						0.4	5.44	0.9	5.65	1.4	5.98	1.8	6.41	2.3	6.93	2.7	7.51	3.0	8.14		
	195						0.4	5.44	0.8	5.65	1.2	5.98	1.6	6.41	2.0	6.93	2.4	7.51	2.7	8.14		
	200						0.3	5.44	0.7	5.65	1.1	5.98	1.4	6.41	1.8	6.93	2.1	7.51	2.4	8.14		
	205						0.3	5.44	0.6	5.65	0.9	5.98	1.3	6.41	1.6	6.93	1.8	7.51	2.0	8.14		
	210						0.3	5.44	0.5	5.65	0.8	5.98	1.1	6.41	1.3	6.92	1.5	7.51	1.7	8.14		
	215						0.2	5.44	0.4	5.65	0.7	5.98	0.9	6.41	1.1	6.92	1.3	7.51	1.4	8.14		
	220						0.2	5.44	0.3	5.65	0.5	5.98	0.7	6.41	0.8	6.92	1.0	7.51	1.1	8.14		
	225						0.1	5.44	0.2	5.65	0.4	5.98	0.5	6.41	0.6	6.92	0.7	7.51	0.7	8.14		
	230						0.1	5.44	0.1	5.65	0.2	5.98	0.3	6.41	0.4	6.93	0.4	7.51	0.4	8.14		
	235						0.0	5.44	0.0	5.65	0.1	5.98	0.1	6.41	0.1	6.93	0.1	7.51	0.1	8.14		
	240						0.0	5.44	-0.1	5.65	-0.1	5.98	-0.1	6.41	-0.1	6.93	-0.2	7.51	-0.3	8.14		
	245						-0.1	5.44	-0.2	5.65	-0.2	5.98	-0.3	6.41	-0.4	6.93	-0.5	7.51	-0.6	8.14		
	250						-0.1	5.44	-0.2	5.65	-0.4	5.98	-0.5	6.41	-0.6	6.93	-0.7	7.51	-0.9	8.14		
12	180								0.6	5.44	1.1	5.65	1.7	5.98	2.2	6.41	2.7	6.93	3.2	7.51		
	185								0.5	5.44	1.0	5.65	1.5	5.98	2.0	6.41	2.5	6.93	2.9	7.51		
	190								0.5	5.44	0.9	5.65	1.4	5.98	1.8	6.41	2.2	6.93	2.6	7.51		
	195								0.4	5.44	0.8	5.65	1.2	5.98	1.6	6.41	2.0	6.93	2.3	7.51		
	200								0.4	5.44	0.7	5.65	1.1	5.98	1.4	6.41	1.8	6.93	2.0	7.51		
	205								0.3	5.44	0.6	5.65	1.0	5.98	1.3	6.41	1.5	6.93	1.8	7.51		

Table C.37. Means (M) and Standard Deciations (sd) of Acedemic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																		
		Prior Grd		Focal Grade																
		36		4	8	12	16	20	24	28	32	36								
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	210						0.3	5.44	0.5	5.65	0.8	5.98	1.1	6.41	1.3	6.92	1.5	7.51		
	215						0.2	5.44	0.5	5.65	0.7	5.98	0.9	6.41	1.1	6.92	1.2	7.51		
	220						0.2	5.44	0.4	5.65	0.5	5.98	0.7	6.41	0.8	6.92	0.9	7.51		
	225						0.1	5.44	0.3	5.65	0.4	5.98	0.5	6.41	0.6	6.92	0.6	7.51		
	230						0.1	5.44	0.2	5.65	0.2	5.98	0.3	6.41	0.3	6.93	0.3	7.51		
	235						0.0	5.44	0.1	5.65	0.1	5.98	0.1	6.41	0.1	6.93	0.1	7.51		
	240						0.0	5.44	0.0	5.65	0.0	5.98	-0.1	6.41	-0.1	6.93	-0.2	7.51		
	245						-0.1	5.44	-0.1	5.65	-0.2	5.98	-0.3	6.41	-0.4	6.93	-0.5	7.51		
	250						-0.1	5.44	-0.2	5.65	-0.3	5.98	-0.5	6.41	-0.6	6.93	-0.8	7.51		
16	180								0.6	5.44	1.1	5.65	1.7	5.98	2.2	6.41	2.6	6.93		
	185								0.5	5.44	1.0	5.65	1.5	5.98	2.0	6.41	2.4	6.93		
	190								0.5	5.44	0.9	5.65	1.4	5.98	1.8	6.41	2.1	6.93		
	195								0.4	5.44	0.8	5.65	1.2	5.98	1.6	6.41	1.9	6.93		
	200								0.4	5.44	0.7	5.65	1.1	5.98	1.4	6.41	1.7	6.93		
	205								0.3	5.44	0.6	5.65	0.9	5.98	1.2	6.41	1.4	6.93		
	210								0.3	5.44	0.6	5.65	0.8	5.98	1.0	6.41	1.2	6.92		
	215								0.2	5.44	0.5	5.65	0.7	5.98	0.8	6.41	1.0	6.92		
	220								0.2	5.44	0.4	5.65	0.5	5.98	0.6	6.41	0.7	6.92		
	225								0.1	5.44	0.3	5.65	0.4	5.98	0.5	6.41	0.5	6.93		
	230								0.1	5.44	0.2	5.65	0.2	5.98	0.3	6.41	0.3	6.93		
	235								0.0	5.44	0.1	5.65	0.1	5.98	0.1	6.41	0.0	6.93		
	240								0.0	5.44	0.0	5.65	-0.1	5.98	-0.1	6.41	-0.2	6.93		
	245								-0.1	5.44	-0.1	5.65	-0.2	5.98	-0.3	6.41	-0.5	6.93		
	250								-0.1	5.44	-0.2	5.65	-0.3	5.98	-0.5	6.41	-0.7	6.93		
20	180										0.6	5.44	1.1	5.65	1.6	5.98	2.1	6.41		
	185										0.5	5.44	1.0	5.65	1.5	5.98	1.9	6.41		
	190										0.5	5.44	0.9	5.65	1.3	5.98	1.7	6.41		
	195										0.4	5.44	0.8	5.65	1.2	5.98	1.5	6.41		
	200										0.4	5.44	0.7	5.65	1.0	5.98	1.3	6.41		
	205										0.3	5.44	0.6	5.65	0.9	5.98	1.1	6.41		
	210										0.3	5.44	0.5	5.65	0.7	5.98	0.9	6.41		
	215										0.2	5.44	0.4	5.65	0.6	5.98	0.7	6.41		
	220										0.2	5.44	0.3	5.65	0.5	5.98	0.5	6.41		
	225										0.1	5.44	0.2	5.65	0.3	5.98	0.4	6.41		

Table C.37. Means (M) and Standard Deciations (sd) of Acedemic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - GENERAL SCIENCE, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	230												0.1	5.44	0.1	5.65	0.2	5.98	0.2	6.41	
	235												0.0	5.44	0.1	5.65	0.0	5.98	0.0	6.41	
	240												0.0	5.44	0.0	5.65	-0.1	5.98	-0.2	6.41	
	245												-0.1	5.44	-0.1	5.65	-0.3	5.98	-0.4	6.41	
	250												-0.1	5.44	-0.2	5.65	-0.4	5.98	-0.6	6.41	

Table C.38. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 2)	155	1.3	5.40	2.9	5.49	4.6	5.63	6.3	5.83	8.1	6.07	9.9	6.35	11.6	6.67	13.1	7.01	14.5	7.39	15.5	7.79
	160	1.2	5.40	2.7	5.49	4.3	5.63	5.9	5.83	7.6	6.07	9.3	6.35	10.9	6.67	12.3	7.01	13.5	7.39	14.5	7.79
	165	1.1	5.40	2.5	5.49	4.0	5.63	5.5	5.83	7.1	6.07	8.7	6.35	10.2	6.67	11.5	7.01	12.6	7.39	13.5	7.79
	170	1.0	5.40	2.3	5.49	3.6	5.63	5.1	5.83	6.6	6.07	8.1	6.35	9.4	6.67	10.7	7.01	11.7	7.39	12.4	7.78
	175	0.9	5.40	2.1	5.49	3.3	5.63	4.7	5.83	6.1	6.07	7.4	6.35	8.7	6.67	9.8	7.01	10.8	7.39	11.4	7.78
	180	0.8	5.40	1.9	5.49	3.0	5.63	4.3	5.83	5.6	6.07	6.8	6.35	8.0	6.67	9.0	7.01	9.8	7.39	10.4	7.78
	185	0.7	5.40	1.6	5.49	2.7	5.63	3.9	5.83	5.1	6.07	6.2	6.35	7.3	6.67	8.2	7.01	8.9	7.39	9.4	7.78
	190	0.6	5.40	1.4	5.49	2.4	5.63	3.5	5.83	4.5	6.07	5.6	6.35	6.6	6.67	7.4	7.01	8.0	7.39	8.3	7.78
	195	0.5	5.40	1.2	5.49	2.1	5.63	3.1	5.83	4.0	6.07	5.0	6.35	5.8	6.67	6.6	7.01	7.1	7.39	7.3	7.78
	200	0.4	5.40	1.0	5.49	1.8	5.63	2.6	5.83	3.5	6.07	4.4	6.35	5.1	6.67	5.7	7.01	6.1	7.39	6.3	7.78
	205	0.3	5.40	0.8	5.49	1.5	5.63	2.2	5.83	3.0	6.07	3.7	6.35	4.4	6.67	4.9	7.01	5.2	7.39	5.3	7.78
210	0.2	5.40	0.6	5.49	1.2	5.63	1.8	5.83	2.5	6.07	3.1	6.35	3.7	6.67	4.1	7.01	4.3	7.39	4.2	7.79	
215	0.1	5.40	0.4	5.49	0.9	5.63	1.4	5.83	2.0	6.07	2.5	6.35	3.0	6.67	3.3	7.01	3.4	7.39	3.2	7.79	
36 (Gd 2)	155			1.5	5.40	3.2	5.49	5.0	5.63	6.8	5.83	8.6	6.07	10.3	6.35	11.8	6.67	13.1	7.01	14.2	7.39
	160			1.4	5.40	3.0	5.49	4.7	5.63	6.4	5.83	8.1	6.07	9.6	6.35	11.1	6.67	12.3	7.01	13.3	7.39
	165			1.3	5.40	2.8	5.49	4.4	5.63	6.0	5.83	7.5	6.07	9.0	6.35	10.4	6.67	11.5	7.01	12.3	7.39
	170			1.2	5.40	2.6	5.49	4.1	5.63	5.6	5.83	7.0	6.07	8.4	6.35	9.6	6.67	10.7	7.01	11.4	7.39
	175			1.1	5.40	2.4	5.49	3.8	5.63	5.2	5.83	6.5	6.07	7.8	6.35	8.9	6.67	9.8	7.01	10.5	7.39
	180			1.0	5.40	2.2	5.49	3.5	5.63	4.7	5.83	6.0	6.07	7.2	6.35	8.2	6.67	9.0	7.01	9.6	7.39
	185			0.9	5.40	2.0	5.49	3.2	5.63	4.3	5.83	5.5	6.07	6.6	6.35	7.5	6.67	8.2	7.01	8.6	7.39
	190			0.8	5.40	1.8	5.49	2.8	5.63	3.9	5.83	5.0	6.07	5.9	6.35	6.8	6.67	7.4	7.01	7.7	7.39
	195			0.7	5.40	1.6	5.49	2.5	5.63	3.5	5.83	4.5	6.07	5.3	6.35	6.0	6.67	6.5	7.01	6.8	7.39
	200			0.6	5.40	1.4	5.49	2.2	5.63	3.1	5.83	4.0	6.07	4.7	6.35	5.3	6.67	5.7	7.01	5.9	7.39
	205			0.5	5.40	1.2	5.49	1.9	5.63	2.7	5.83	3.4	6.07	4.1	6.35	4.6	6.67	4.9	7.01	4.9	7.39
210			0.4	5.40	1.0	5.49	1.6	5.63	2.3	5.83	2.9	6.07	3.5	6.35	3.9	6.67	4.1	7.01	4.0	7.39	
215			0.3	5.40	0.8	5.49	1.3	5.63	1.9	5.83	2.4	6.07	2.9	6.35	3.2	6.67	3.3	7.01	3.1	7.39	
4	160					1.6	5.40	3.3	5.49	5.0	5.63	6.6	5.83	8.2	6.07	9.6	6.35	10.9	6.67	11.8	7.01
	165					1.5	5.40	3.1	5.49	4.6	5.63	6.2	5.83	7.7	6.07	9.0	6.35	10.1	6.67	11.0	7.01
	170					1.4	5.40	2.8	5.49	4.3	5.63	5.8	5.83	7.2	6.07	8.4	6.35	9.4	6.67	10.2	7.01
	175					1.3	5.40	2.6	5.49	4.0	5.63	5.4	5.83	6.7	6.07	7.8	6.35	8.7	6.67	9.4	7.01
	180					1.2	5.40	2.4	5.49	3.7	5.63	5.0	5.83	6.1	6.07	7.2	6.35	8.0	6.67	8.5	7.01
	185					1.1	5.40	2.2	5.49	3.4	5.63	4.6	5.83	5.6	6.07	6.6	6.35	7.3	6.66	7.7	7.01

Table C.38. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36	4	8	12	16	20	24	28	32	36								
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	190			1.0	5.40	2.0	5.49	3.1	5.63	4.2	5.83	5.1	6.07	5.9	6.35	6.5	6.66	6.9	7.01
	195			0.9	5.40	1.8	5.49	2.8	5.63	3.7	5.83	4.6	6.07	5.3	6.35	5.8	6.67	6.1	7.01
	200			0.8	5.40	1.6	5.49	2.5	5.63	3.3	5.83	4.1	6.07	4.7	6.35	5.1	6.67	5.3	7.01
	205			0.7	5.40	1.4	5.49	2.2	5.63	2.9	5.83	3.6	6.07	4.1	6.35	4.4	6.67	4.4	7.01
	210			0.6	5.40	1.2	5.49	1.9	5.63	2.5	5.83	3.1	6.07	3.5	6.35	3.7	6.67	3.6	7.01
	215			0.5	5.40	1.0	5.49	1.6	5.63	2.1	5.83	2.6	6.07	2.9	6.35	3.0	6.67	2.8	7.01
	220			0.4	5.40	0.8	5.49	1.3	5.63	1.7	5.83	2.0	6.07	2.2	6.35	2.2	6.67	2.0	7.01
8	160					1.7	5.40	3.4	5.49	5.0	5.63	6.6	5.83	8.1	6.07	9.3	6.35	10.2	6.67
	165					1.6	5.40	3.2	5.49	4.7	5.63	6.2	5.83	7.5	6.07	8.7	6.35	9.5	6.67
	170					1.5	5.40	3.0	5.49	4.4	5.63	5.8	5.83	7.0	6.07	8.0	6.35	8.8	6.67
	175					1.4	5.40	2.8	5.49	4.1	5.63	5.4	5.83	6.5	6.07	7.4	6.35	8.1	6.67
	180					1.3	5.40	2.6	5.49	3.8	5.63	5.0	5.83	6.0	6.07	6.8	6.35	7.4	6.67
	185					1.2	5.40	2.3	5.49	3.5	5.63	4.6	5.83	5.5	6.07	6.2	6.35	6.7	6.66
	190					1.1	5.40	2.1	5.49	3.2	5.63	4.2	5.83	5.0	6.07	5.6	6.35	5.9	6.66
	195					1.0	5.40	1.9	5.49	2.9	5.63	3.7	5.83	4.5	6.07	5.0	6.35	5.2	6.66
	200					0.9	5.40	1.7	5.49	2.6	5.63	3.3	5.83	3.9	6.07	4.3	6.35	4.5	6.67
	205					0.7	5.40	1.5	5.49	2.3	5.63	2.9	5.83	3.4	6.07	3.7	6.35	3.8	6.67
	210					0.6	5.40	1.3	5.49	2.0	5.63	2.5	5.83	2.9	6.07	3.1	6.35	3.1	6.67
	215					0.5	5.40	1.1	5.49	1.6	5.63	2.1	5.83	2.4	6.07	2.5	6.35	2.3	6.67
	220					0.4	5.40	0.9	5.49	1.3	5.63	1.7	5.83	1.9	6.07	1.9	6.35	1.6	6.67
12	160							1.7	5.40	3.4	5.49	5.0	5.63	6.4	5.83	7.6	6.07	8.6	6.35
	165							1.6	5.40	3.2	5.49	4.6	5.63	6.0	5.83	7.1	6.07	8.0	6.35
	170							1.5	5.40	3.0	5.49	4.3	5.63	5.6	5.83	6.6	6.07	7.3	6.35
	175							1.4	5.40	2.8	5.49	4.0	5.63	5.2	5.83	6.1	6.07	6.7	6.35
	180							1.3	5.40	2.5	5.49	3.7	5.63	4.7	5.83	5.6	6.07	6.1	6.35
	185							1.2	5.40	2.3	5.49	3.4	5.63	4.3	5.83	5.0	6.07	5.5	6.35
	190							1.1	5.40	2.1	5.49	3.1	5.63	3.9	5.83	4.5	6.07	4.9	6.35
	195							1.0	5.40	1.9	5.49	2.8	5.63	3.5	5.83	4.0	6.07	4.3	6.35
	200							0.9	5.40	1.7	5.49	2.5	5.63	3.1	5.83	3.5	6.07	3.6	6.35
	205							0.8	5.40	1.5	5.49	2.2	5.63	2.7	5.83	3.0	6.07	3.0	6.35
	210							0.7	5.40	1.3	5.49	1.9	5.63	2.3	5.83	2.5	6.07	2.4	6.35
	215							0.6	5.40	1.1	5.49	1.6	5.63	1.9	5.83	2.0	6.07	1.8	6.35
	220							0.5	5.40	0.9	5.49	1.3	5.63	1.5	5.83	1.4	6.07	1.2	6.35
16	165									1.6	5.40	3.0	5.49	4.4	5.63	5.5	5.83	6.4	6.07

Table C.38. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 3

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36		4	8	12	16	20	24	28	32	36							
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	170							1.5	5.40	2.8	5.49	4.1	5.63	5.1	5.83	5.9	6.07		
	175							1.4	5.40	2.6	5.49	3.8	5.63	4.7	5.83	5.3	6.07		
	180							1.3	5.40	2.4	5.49	3.5	5.63	4.3	5.83	4.8	6.07		
	185							1.2	5.40	2.2	5.49	3.1	5.63	3.9	5.83	4.3	6.07		
	190							1.1	5.40	2.0	5.49	2.8	5.63	3.4	5.83	3.8	6.07		
	195							1.0	5.40	1.8	5.49	2.5	5.63	3.0	5.83	3.3	6.07		
	200							0.9	5.40	1.6	5.49	2.2	5.63	2.6	5.83	2.8	6.07		
	205							0.7	5.40	1.4	5.49	1.9	5.63	2.2	5.83	2.3	6.07		
	210							0.6	5.40	1.2	5.49	1.6	5.63	1.8	5.83	1.7	6.07		
	215							0.5	5.40	1.0	5.49	1.3	5.63	1.4	5.83	1.2	6.07		
	220							0.4	5.40	0.8	5.49	1.0	5.63	1.0	5.83	0.7	6.07		
20	165											1.5	5.40	2.8	5.49	3.9	5.63	4.8	5.83
	170											1.4	5.40	2.6	5.49	3.6	5.63	4.4	5.83
	175											1.3	5.40	2.4	5.49	3.3	5.63	4.0	5.83
	180											1.2	5.40	2.2	5.49	3.0	5.63	3.6	5.83
	185											1.1	5.40	2.0	5.49	2.7	5.63	3.2	5.83
	190											1.0	5.40	1.8	5.49	2.4	5.63	2.7	5.83
	195											0.9	5.40	1.6	5.49	2.1	5.63	2.3	5.83
	200											0.8	5.40	1.4	5.49	1.8	5.63	1.9	5.83
	205											0.7	5.40	1.2	5.49	1.5	5.63	1.5	5.83
	210											0.6	5.40	1.0	5.49	1.2	5.63	1.1	5.83
	215											0.5	5.40	0.8	5.49	0.9	5.63	0.7	5.83
	220											0.4	5.40	0.6	5.49	0.5	5.63	0.3	5.83

Table C.39. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 3)	165	0.9	5.40	1.8	5.47	2.8	5.59	3.8	5.76	4.9	5.97	5.9	6.21	6.9	6.48	7.9	6.79	8.8	7.12	9.6	7.47
	170	0.8	5.40	1.7	5.47	2.6	5.59	3.6	5.76	4.6	5.97	5.6	6.21	6.6	6.48	7.5	6.79	8.3	7.12	9.1	7.47
	175	0.7	5.40	1.6	5.47	2.5	5.59	3.4	5.76	4.3	5.97	5.3	6.21	6.2	6.48	7.0	6.79	7.8	7.12	8.5	7.47
	180	0.7	5.40	1.5	5.47	2.3	5.59	3.2	5.76	4.1	5.97	5.0	6.21	5.8	6.48	6.6	6.79	7.3	7.12	8.0	7.47
	185	0.6	5.40	1.4	5.47	2.1	5.59	3.0	5.76	3.8	5.97	4.6	6.21	5.4	6.48	6.2	6.79	6.9	7.12	7.4	7.46
	190	0.6	5.40	1.2	5.47	2.0	5.59	2.7	5.76	3.5	5.97	4.3	6.21	5.1	6.48	5.7	6.79	6.4	7.12	6.9	7.46
	195	0.5	5.40	1.1	5.47	1.8	5.59	2.5	5.76	3.3	5.97	4.0	6.21	4.7	6.48	5.3	6.79	5.9	7.11	6.3	7.46
	200	0.5	5.40	1.0	5.47	1.7	5.59	2.3	5.76	3.0	5.97	3.7	6.21	4.3	6.48	4.9	6.79	5.4	7.12	5.8	7.46
	205	0.4	5.40	0.9	5.47	1.5	5.59	2.1	5.76	2.7	5.97	3.3	6.21	3.9	6.48	4.4	6.79	4.9	7.12	5.3	7.46
	210	0.4	5.40	0.8	5.47	1.3	5.59	1.9	5.76	2.4	5.97	3.0	6.21	3.5	6.48	4.0	6.79	4.4	7.12	4.7	7.47
	215	0.3	5.40	0.7	5.47	1.2	5.59	1.7	5.76	2.2	5.97	2.7	6.21	3.2	6.48	3.6	6.79	3.9	7.12	4.2	7.47
	220	0.3	5.40	0.6	5.47	1.0	5.59	1.4	5.76	1.9	5.97	2.4	6.21	2.8	6.48	3.1	6.79	3.4	7.12	3.6	7.47
225	0.2	5.40	0.5	5.47	0.8	5.59	1.2	5.76	1.6	5.97	2.0	6.21	2.4	6.48	2.7	6.79	3.0	7.12	3.1	7.47	
36 (Gd 3)	165			0.9	5.40	1.9	5.47	3.0	5.59	4.0	5.76	5.1	5.97	6.1	6.21	7.1	6.48	8.0	6.79	8.7	7.12
	170			0.9	5.40	1.8	5.47	2.8	5.59	3.8	5.76	4.8	5.97	5.8	6.21	6.7	6.48	7.5	6.79	8.3	7.12
	175			0.8	5.40	1.7	5.47	2.7	5.59	3.6	5.76	4.5	5.97	5.4	6.21	6.3	6.48	7.1	6.79	7.8	7.12
	180			0.8	5.40	1.6	5.47	2.5	5.59	3.4	5.76	4.3	5.97	5.1	6.21	5.9	6.48	6.7	6.79	7.3	7.12
	185			0.7	5.40	1.5	5.47	2.3	5.59	3.2	5.76	4.0	5.97	4.8	6.21	5.5	6.48	6.2	6.79	6.8	7.12
	190			0.7	5.40	1.4	5.47	2.2	5.59	2.9	5.76	3.7	5.97	4.5	6.21	5.2	6.48	5.8	6.79	6.3	7.12
	195			0.6	5.40	1.3	5.47	2.0	5.59	2.7	5.76	3.5	5.97	4.1	6.21	4.8	6.48	5.4	6.79	5.8	7.11
	200			0.6	5.40	1.2	5.47	1.8	5.59	2.5	5.76	3.2	5.97	3.8	6.21	4.4	6.48	4.9	6.79	5.3	7.11
	205			0.5	5.40	1.1	5.47	1.7	5.59	2.3	5.76	2.9	5.97	3.5	6.21	4.0	6.48	4.5	6.79	4.8	7.12
	210			0.5	5.40	1.0	5.47	1.5	5.59	2.1	5.76	2.6	5.97	3.2	6.21	3.7	6.48	4.1	6.79	4.4	7.12
	215			0.4	5.40	0.9	5.47	1.4	5.59	1.9	5.76	2.4	5.97	2.8	6.21	3.3	6.48	3.6	6.79	3.9	7.12
	220			0.3	5.40	0.7	5.47	1.2	5.59	1.6	5.76	2.1	5.97	2.5	6.21	2.9	6.48	3.2	6.79	3.4	7.12
225			0.3	5.40	0.6	5.47	1.0	5.59	1.4	5.76	1.8	5.97	2.2	6.21	2.5	6.48	2.8	6.79	2.9	7.12	
4	165					1.0	5.40	2.0	5.47	3.1	5.59	4.1	5.76	5.2	5.97	6.1	6.21	7.0	6.48	7.8	6.79
	170					0.9	5.40	1.9	5.47	2.9	5.59	3.9	5.76	4.9	5.97	5.8	6.21	6.6	6.48	7.4	6.79
	175					0.9	5.40	1.8	5.47	2.8	5.59	3.7	5.76	4.6	5.97	5.5	6.21	6.3	6.48	6.9	6.79
	180					0.8	5.40	1.7	5.47	2.6	5.59	3.5	5.76	4.3	5.97	5.2	6.21	5.9	6.48	6.5	6.79
	185					0.8	5.40	1.6	5.47	2.4	5.59	3.3	5.76	4.1	5.97	4.8	6.21	5.5	6.48	6.1	6.79
	190					0.7	5.40	1.5	5.47	2.3	5.59	3.1	5.76	3.8	5.97	4.5	6.21	5.1	6.48	5.6	6.79

Table C.39. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																				
		Prior Grd		Focal Grade																		
		36		4	8	12	16	20	24	28	32	36										
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	195				0.7	5.40	1.4	5.47	2.1	5.59	2.8	5.76	3.5	5.97	4.2	6.21	4.7	6.48	5.2	6.79		
	200				0.6	5.40	1.3	5.47	2.0	5.59	2.6	5.76	3.3	5.97	3.9	6.21	4.4	6.48	4.8	6.79		
	205				0.6	5.40	1.2	5.47	1.8	5.59	2.4	5.76	3.0	5.97	3.5	6.21	4.0	6.48	4.3	6.79		
	210				0.5	5.40	1.1	5.47	1.6	5.59	2.2	5.76	2.7	5.97	3.2	6.21	3.6	6.48	3.9	6.79		
	215				0.5	5.40	1.0	5.47	1.5	5.59	2.0	5.76	2.5	5.97	2.9	6.21	3.2	6.48	3.5	6.79		
	220				0.4	5.40	0.8	5.47	1.3	5.59	1.8	5.76	2.2	5.97	2.6	6.21	2.8	6.48	3.0	6.79		
	225				0.4	5.40	0.7	5.47	1.1	5.59	1.5	5.76	1.9	5.97	2.2	6.21	2.5	6.48	2.6	6.79		
8	165						1.0	5.40	2.1	5.47	3.1	5.59	4.2	5.76	5.1	5.97	6.0	6.21	6.8	6.48		
	170						1.0	5.40	2.0	5.47	3.0	5.59	3.9	5.76	4.9	5.97	5.7	6.21	6.4	6.48		
	175						0.9	5.40	1.9	5.47	2.8	5.59	3.7	5.76	4.6	5.97	5.4	6.21	6.1	6.48		
	180						0.9	5.40	1.8	5.47	2.7	5.59	3.5	5.76	4.3	5.97	5.0	6.21	5.7	6.48		
	185						0.8	5.40	1.7	5.47	2.5	5.59	3.3	5.76	4.0	5.97	4.7	6.21	5.3	6.48		
	190						0.8	5.40	1.6	5.47	2.3	5.59	3.1	5.76	3.8	5.97	4.4	6.21	4.9	6.48		
	195						0.7	5.40	1.4	5.47	2.2	5.59	2.9	5.76	3.5	5.97	4.1	6.21	4.5	6.48		
	200						0.7	5.40	1.3	5.47	2.0	5.59	2.6	5.76	3.2	5.97	3.7	6.21	4.2	6.48		
	205						0.6	5.40	1.2	5.47	1.8	5.59	2.4	5.76	3.0	5.97	3.4	6.21	3.8	6.48		
	210						0.6	5.40	1.1	5.47	1.7	5.59	2.2	5.76	2.7	5.97	3.1	6.21	3.4	6.48		
	215						0.5	5.40	1.0	5.47	1.5	5.59	2.0	5.76	2.4	5.97	2.8	6.21	3.0	6.48		
	220						0.4	5.40	0.9	5.47	1.4	5.59	1.8	5.76	2.2	5.97	2.4	6.21	2.6	6.48		
	225						0.4	5.40	0.8	5.47	1.2	5.59	1.6	5.76	1.9	5.97	2.1	6.21	2.3	6.48		
12	170								1.0	5.40	2.0	5.47	3.0	5.59	3.9	5.76	4.7	5.97	5.5	6.21		
	175								1.0	5.40	1.9	5.47	2.8	5.59	3.7	5.76	4.4	5.97	5.1	6.21		
	180								0.9	5.40	1.8	5.47	2.6	5.59	3.4	5.76	4.2	5.97	4.8	6.21		
	185								0.8	5.40	1.7	5.47	2.5	5.59	3.2	5.76	3.9	5.97	4.5	6.21		
	190								0.8	5.40	1.6	5.47	2.3	5.59	3.0	5.76	3.6	5.97	4.2	6.21		
	195								0.7	5.40	1.5	5.47	2.2	5.59	2.8	5.76	3.4	5.97	3.8	6.21		
	200								0.7	5.40	1.3	5.47	2.0	5.59	2.6	5.76	3.1	5.97	3.5	6.21		
	205								0.6	5.40	1.2	5.47	1.8	5.59	2.4	5.76	2.8	5.97	3.2	6.21		
	210								0.6	5.40	1.1	5.47	1.7	5.59	2.1	5.76	2.5	5.97	2.9	6.21		
	215								0.5	5.40	1.0	5.47	1.5	5.59	1.9	5.76	2.3	5.97	2.5	6.21		
	220								0.5	5.40	0.9	5.47	1.3	5.59	1.7	5.76	2.0	5.97	2.2	6.21		
	225								0.4	5.40	0.8	5.47	1.2	5.59	1.5	5.76	1.7	5.97	1.9	6.21		
16	170										1.0	5.40	2.0	5.47	2.9	5.59	3.7	5.76	4.5	5.97		
	175										0.9	5.40	1.9	5.47	2.7	5.59	3.5	5.76	4.2	5.97		

Table C.39. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 4

Start Inst. Wk	Start RIT	Ending Instructional Weeks																					
		Prior Grd		Focal Grade																			
		36		4		8		12		16		20		24		28		32		36			
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	180											0.9	5.40	1.7	5.47	2.6	5.59	3.3	5.76	3.9	5.97		
	185											0.8	5.40	1.6	5.47	2.4	5.59	3.1	5.76	3.6	5.97		
	190											0.8	5.40	1.5	5.47	2.2	5.59	2.8	5.76	3.4	5.97		
	195											0.7	5.40	1.4	5.47	2.1	5.59	2.6	5.76	3.1	5.97		
	200											0.7	5.40	1.3	5.47	1.9	5.59	2.4	5.76	2.8	5.97		
	205											0.6	5.40	1.2	5.47	1.7	5.59	2.2	5.76	2.6	5.97		
	210											0.6	5.40	1.1	5.47	1.6	5.59	2.0	5.76	2.3	5.97		
	215											0.5	5.40	1.0	5.47	1.4	5.59	1.8	5.76	2.0	5.97		
	220											0.5	5.40	0.9	5.47	1.3	5.59	1.5	5.76	1.7	5.97		
	225											0.4	5.40	0.8	5.47	1.1	5.59	1.3	5.76	1.5	5.97		
20	170															1.0	5.40	1.9	5.47	2.7	5.59	3.5	5.76
	175															0.9	5.40	1.8	5.47	2.6	5.59	3.2	5.76
	180															0.9	5.40	1.7	5.47	2.4	5.59	3.0	5.76
	185															0.8	5.40	1.6	5.47	2.2	5.59	2.8	5.76
	190															0.8	5.40	1.4	5.47	2.1	5.59	2.6	5.76
	195															0.7	5.40	1.3	5.47	1.9	5.59	2.4	5.76
	200															0.6	5.40	1.2	5.47	1.7	5.59	2.2	5.76
	205															0.6	5.40	1.1	5.47	1.6	5.59	1.9	5.76
	210															0.5	5.40	1.0	5.47	1.4	5.59	1.7	5.76
	215															0.5	5.40	0.9	5.47	1.3	5.59	1.5	5.76
	220															0.4	5.40	0.8	5.47	1.1	5.59	1.3	5.76
	225															0.4	5.40	0.7	5.47	0.9	5.59	1.1	5.76

Table C.40. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 4)	170	0.7	5.40	1.4	5.49	2.2	5.63	3.0	5.83	3.8	6.07	4.5	6.35	5.2	6.66	5.8	7.01	6.3	7.38	6.7	7.78
	175	0.7	5.40	1.4	5.49	2.1	5.63	2.9	5.83	3.6	6.07	4.4	6.35	5.0	6.66	5.6	7.01	6.1	7.38	6.4	7.78
	180	0.6	5.40	1.3	5.49	2.1	5.63	2.8	5.83	3.5	6.07	4.2	6.35	4.9	6.66	5.4	7.01	5.9	7.38	6.2	7.78
	185	0.6	5.40	1.3	5.49	2.0	5.63	2.7	5.83	3.4	6.07	4.1	6.35	4.7	6.66	5.2	7.01	5.6	7.38	5.9	7.78
	190	0.6	5.40	1.2	5.49	1.9	5.63	2.6	5.83	3.3	6.07	3.9	6.35	4.5	6.66	5.0	7.01	5.4	7.38	5.7	7.78
	195	0.6	5.40	1.2	5.49	1.8	5.63	2.5	5.83	3.2	6.06	3.8	6.35	4.3	6.66	4.8	7.01	5.2	7.38	5.4	7.78
	200	0.5	5.40	1.1	5.49	1.8	5.63	2.4	5.83	3.0	6.06	3.6	6.35	4.2	6.66	4.6	7.01	5.0	7.38	5.2	7.78
	205	0.5	5.40	1.1	5.49	1.7	5.63	2.3	5.83	2.9	6.06	3.5	6.35	4.0	6.66	4.4	7.01	4.8	7.38	5.0	7.78
	210	0.5	5.40	1.0	5.49	1.6	5.63	2.2	5.83	2.8	6.06	3.3	6.35	3.8	6.66	4.2	7.01	4.5	7.38	4.7	7.78
	215	0.5	5.40	1.0	5.49	1.5	5.63	2.1	5.83	2.7	6.07	3.2	6.35	3.7	6.66	4.0	7.01	4.3	7.38	4.5	7.78
	220	0.4	5.40	0.9	5.49	1.5	5.63	2.0	5.83	2.5	6.07	3.0	6.35	3.5	6.66	3.8	7.01	4.1	7.38	4.2	7.78
	225	0.4	5.40	0.9	5.49	1.4	5.63	1.9	5.83	2.4	6.07	2.9	6.35	3.3	6.66	3.6	7.01	3.9	7.38	4.0	7.78
230	0.4	5.40	0.8	5.49	1.3	5.63	1.8	5.83	2.3	6.07	2.7	6.35	3.1	6.66	3.4	7.01	3.6	7.38	3.7	7.78	
36 (Gd 4)	170			0.7	5.40	1.5	5.49	2.3	5.63	3.1	5.83	3.8	6.07	4.5	6.35	5.1	6.66	5.6	7.01	6.0	7.38
	175			0.7	5.40	1.5	5.49	2.2	5.63	3.0	5.83	3.7	6.07	4.4	6.35	5.0	6.66	5.4	7.01	5.8	7.38
	180			0.7	5.40	1.4	5.49	2.2	5.63	2.9	5.83	3.6	6.07	4.2	6.35	4.8	6.66	5.2	7.01	5.6	7.38
	185			0.7	5.40	1.4	5.49	2.1	5.63	2.8	5.83	3.5	6.07	4.1	6.35	4.6	6.66	5.0	7.01	5.3	7.38
	190			0.6	5.40	1.3	5.49	2.0	5.63	2.7	5.83	3.3	6.06	3.9	6.35	4.4	6.66	4.8	7.01	5.1	7.38
	195			0.6	5.40	1.3	5.49	1.9	5.63	2.6	5.83	3.2	6.06	3.8	6.35	4.3	6.66	4.7	7.01	4.9	7.38
	200			0.6	5.40	1.2	5.49	1.9	5.63	2.5	5.83	3.1	6.06	3.6	6.35	4.1	6.66	4.5	7.01	4.7	7.38
	205			0.6	5.40	1.2	5.49	1.8	5.63	2.4	5.83	3.0	6.06	3.5	6.35	3.9	6.66	4.3	7.01	4.5	7.38
	210			0.5	5.40	1.1	5.49	1.7	5.63	2.3	5.83	2.9	6.06	3.3	6.35	3.8	6.66	4.1	7.01	4.2	7.38
	215			0.5	5.40	1.1	5.49	1.6	5.63	2.2	5.83	2.7	6.07	3.2	6.35	3.6	6.66	3.9	7.01	4.0	7.38
	220			0.5	5.40	1.0	5.49	1.6	5.63	2.1	5.83	2.6	6.07	3.1	6.35	3.4	6.66	3.7	7.01	3.8	7.38
	225			0.5	5.40	1.0	5.49	1.5	5.63	2.0	5.83	2.5	6.07	2.9	6.35	3.2	6.66	3.5	7.01	3.6	7.38
230			0.4	5.40	0.9	5.49	1.4	5.63	1.9	5.83	2.4	6.07	2.8	6.35	3.1	6.66	3.3	7.01	3.3	7.38	
4	170					0.8	5.40	1.6	5.49	2.4	5.63	3.1	5.83	3.8	6.07	4.4	6.35	4.9	6.66	5.3	7.01
	175					0.8	5.40	1.5	5.49	2.3	5.63	3.0	5.83	3.7	6.07	4.3	6.35	4.7	6.66	5.1	7.01
	180					0.7	5.40	1.5	5.49	2.2	5.63	2.9	5.83	3.5	6.07	4.1	6.35	4.6	6.66	4.9	7.01
	185					0.7	5.40	1.4	5.49	2.1	5.63	2.8	5.83	3.4	6.07	4.0	6.35	4.4	6.66	4.7	7.01
	190					0.7	5.40	1.4	5.49	2.1	5.63	2.7	5.83	3.3	6.06	3.8	6.35	4.2	6.66	4.5	7.01
	195					0.7	5.40	1.3	5.49	2.0	5.63	2.6	5.83	3.2	6.06	3.7	6.35	4.0	6.66	4.3	7.01

Table C.40. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																				
		Prior Grd		Focal Grade																		
		36		4	8	12	16	20	24	28	32	36										
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	200				0.6	5.40	1.3	5.49	1.9	5.63	2.5	5.83	3.1	6.06	3.5	6.35	3.9	6.66	4.1	7.01		
	205				0.6	5.40	1.2	5.49	1.8	5.63	2.4	5.83	2.9	6.06	3.4	6.35	3.7	6.66	3.9	7.01		
	210				0.6	5.40	1.2	5.49	1.8	5.63	2.3	5.83	2.8	6.06	3.2	6.35	3.5	6.66	3.7	7.01		
	215				0.6	5.40	1.1	5.49	1.7	5.63	2.2	5.83	2.7	6.07	3.1	6.35	3.3	6.66	3.5	7.01		
	220				0.5	5.40	1.1	5.49	1.6	5.63	2.1	5.83	2.6	6.07	2.9	6.35	3.2	6.66	3.3	7.01		
	225				0.5	5.40	1.0	5.49	1.5	5.63	2.0	5.83	2.4	6.07	2.8	6.35	3.0	6.66	3.1	7.01		
	230				0.5	5.40	1.0	5.49	1.5	5.63	1.9	5.83	2.3	6.07	2.6	6.35	2.8	6.66	2.9	7.01		
8	175						0.8	5.40	1.5	5.49	2.3	5.63	2.9	5.83	3.5	6.07	4.0	6.35	4.3	6.66		
	180						0.7	5.40	1.5	5.49	2.2	5.63	2.8	5.83	3.4	6.07	3.8	6.35	4.1	6.66		
	185						0.7	5.40	1.4	5.49	2.1	5.63	2.7	5.83	3.3	6.07	3.7	6.35	4.0	6.66		
	190						0.7	5.40	1.4	5.49	2.0	5.63	2.6	5.83	3.1	6.06	3.5	6.35	3.8	6.66		
	195						0.7	5.40	1.3	5.49	2.0	5.63	2.5	5.83	3.0	6.06	3.4	6.35	3.6	6.66		
	200						0.6	5.40	1.3	5.49	1.9	5.63	2.4	5.83	2.9	6.06	3.2	6.35	3.5	6.66		
	205						0.6	5.40	1.2	5.49	1.8	5.63	2.3	5.83	2.8	6.06	3.1	6.35	3.3	6.66		
	210						0.6	5.40	1.2	5.49	1.7	5.63	2.2	5.83	2.6	6.06	2.9	6.35	3.1	6.66		
	215						0.6	5.40	1.1	5.49	1.7	5.63	2.1	5.83	2.5	6.07	2.8	6.35	2.9	6.66		
	220						0.5	5.40	1.1	5.49	1.6	5.63	2.0	5.83	2.4	6.07	2.6	6.35	2.8	6.66		
	225						0.5	5.40	1.0	5.49	1.5	5.63	1.9	5.83	2.3	6.07	2.5	6.35	2.6	6.66		
	230						0.5	5.40	1.0	5.49	1.4	5.63	1.8	5.83	2.1	6.07	2.3	6.35	2.4	6.66		
12	175								0.8	5.40	1.5	5.49	2.1	5.63	2.7	5.83	3.2	6.07	3.6	6.35		
	180								0.7	5.40	1.4	5.49	2.1	5.63	2.6	5.83	3.1	6.07	3.4	6.35		
	185								0.7	5.40	1.4	5.49	2.0	5.63	2.5	5.83	3.0	6.07	3.3	6.35		
	190								0.7	5.40	1.3	5.49	1.9	5.63	2.4	5.83	2.8	6.06	3.1	6.35		
	195								0.7	5.40	1.3	5.49	1.9	5.63	2.3	5.83	2.7	6.06	3.0	6.35		
	200								0.6	5.40	1.2	5.49	1.8	5.63	2.2	5.83	2.6	6.06	2.8	6.35		
	205								0.6	5.40	1.2	5.49	1.7	5.63	2.1	5.83	2.5	6.06	2.7	6.35		
	210								0.6	5.40	1.1	5.49	1.6	5.63	2.0	5.83	2.3	6.06	2.5	6.35		
	215								0.6	5.40	1.1	5.49	1.6	5.63	1.9	5.83	2.2	6.06	2.4	6.35		
	220								0.5	5.40	1.0	5.49	1.5	5.63	1.8	5.83	2.1	6.07	2.2	6.35		
	225								0.5	5.40	1.0	5.49	1.4	5.63	1.7	5.83	2.0	6.07	2.1	6.35		
	230								0.5	5.40	0.9	5.49	1.3	5.63	1.6	5.83	1.8	6.07	1.9	6.35		
16	175										0.7	5.40	1.4	5.49	2.0	5.63	2.4	5.83	2.8	6.07		
	180										0.7	5.40	1.3	5.49	1.9	5.63	2.4	5.83	2.7	6.07		
	185										0.7	5.40	1.3	5.49	1.8	5.63	2.3	5.83	2.5	6.07		

Table C.40. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 5

Start Inst. Wk	Start RIT	Ending Instructional Weeks																					
		Prior Grd		Focal Grade																			
		36		4		8		12		16		20		24		28		32		36			
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	190											0.7	5.40	1.2	5.49	1.8	5.63	2.2	5.83	2.4	6.06		
	195											0.6	5.40	1.2	5.49	1.7	5.63	2.1	5.83	2.3	6.06		
	200											0.6	5.40	1.1	5.49	1.6	5.63	2.0	5.83	2.2	6.06		
	205											0.6	5.40	1.1	5.49	1.5	5.63	1.9	5.83	2.1	6.06		
	210											0.6	5.40	1.0	5.49	1.5	5.63	1.8	5.83	1.9	6.06		
	215											0.5	5.40	1.0	5.49	1.4	5.63	1.7	5.83	1.8	6.07		
	220											0.5	5.40	0.9	5.49	1.3	5.63	1.6	5.83	1.7	6.07		
	225											0.5	5.40	0.9	5.49	1.2	5.63	1.5	5.83	1.6	6.07		
	230											0.5	5.40	0.8	5.49	1.2	5.63	1.4	5.83	1.4	6.07		
20	175													0.7	5.40	1.3	5.49	1.7	5.63	2.1	5.83		
	180													0.6	5.40	1.2	5.49	1.7	5.63	2.0	5.83		
	185													0.6	5.40	1.2	5.49	1.6	5.63	1.9	5.83		
	190													0.6	5.40	1.1	5.49	1.5	5.63	1.8	5.83		
	195													0.6	5.40	1.1	5.49	1.4	5.63	1.7	5.83		
	200													0.5	5.40	1.0	5.49	1.4	5.63	1.6	5.83		
	205													0.5	5.40	1.0	5.49	1.3	5.63	1.5	5.83		
	210													0.5	5.40	0.9	5.49	1.2	5.63	1.4	5.83		
	215													0.5	5.40	0.9	5.49	1.1	5.63	1.3	5.83		
	220													0.4	5.40	0.8	5.49	1.1	5.63	1.2	5.83		
	225													0.4	5.40	0.8	5.49	1.0	5.63	1.1	5.83		
	230													0.4	5.40	0.7	5.49	0.9	5.63	1.0	5.83		

Table C.41. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 6

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 5)	175	0.5	5.41	1.0	5.50	1.7	5.65	2.3	5.86	3.0	6.12	3.7	6.42	4.3	6.76	5.0	7.13	5.6	7.52	6.1	7.94
	180	0.4	5.41	1.0	5.50	1.5	5.65	2.2	5.86	2.8	6.12	3.4	6.42	4.1	6.76	4.6	7.13	5.2	7.52	5.7	7.94
	185	0.4	5.41	0.9	5.50	1.4	5.65	2.0	5.86	2.6	6.12	3.2	6.42	3.8	6.76	4.3	7.12	4.8	7.52	5.2	7.94
	190	0.4	5.41	0.8	5.50	1.3	5.65	1.8	5.86	2.4	6.12	2.9	6.42	3.5	6.76	4.0	7.12	4.4	7.52	4.8	7.94
	195	0.3	5.41	0.7	5.50	1.2	5.65	1.6	5.86	2.2	6.12	2.7	6.42	3.2	6.76	3.6	7.12	4.0	7.52	4.4	7.94
	200	0.3	5.41	0.6	5.50	1.0	5.65	1.5	5.86	1.9	6.12	2.4	6.42	2.9	6.76	3.3	7.12	3.7	7.52	4.0	7.94
	205	0.2	5.41	0.5	5.50	0.9	5.65	1.3	5.86	1.7	6.12	2.2	6.42	2.6	6.76	3.0	7.12	3.3	7.52	3.6	7.94
	210	0.2	5.41	0.5	5.50	0.8	5.65	1.1	5.86	1.5	6.12	1.9	6.42	2.3	6.76	2.6	7.12	2.9	7.52	3.1	7.94
	215	0.1	5.41	0.4	5.50	0.6	5.65	1.0	5.86	1.3	6.12	1.7	6.42	2.0	6.76	2.3	7.12	2.5	7.52	2.7	7.94
	220	0.1	5.41	0.3	5.50	0.5	5.65	0.8	5.86	1.1	6.12	1.4	6.42	1.7	6.76	1.9	7.12	2.1	7.52	2.3	7.94
	225	0.1	5.41	0.2	5.50	0.4	5.65	0.6	5.86	0.9	6.12	1.1	6.42	1.4	6.76	1.6	7.12	1.8	7.52	1.9	7.94
	230	0.0	5.41	0.1	5.50	0.3	5.65	0.5	5.86	0.7	6.12	0.9	6.42	1.1	6.76	1.3	7.13	1.4	7.52	1.4	7.94
235	0.0	5.41	0.0	5.50	0.1	5.65	0.3	5.86	0.5	6.12	0.6	6.42	0.8	6.76	0.9	7.13	1.0	7.52	1.0	7.94	
36 (Gd 5)	175			0.6	5.41	1.2	5.50	1.8	5.65	2.5	5.86	3.2	6.12	3.9	6.42	4.5	6.76	5.1	7.13	5.6	7.52
	180			0.5	5.41	1.1	5.50	1.7	5.65	2.3	5.86	3.0	6.12	3.6	6.42	4.2	6.76	4.8	7.13	5.2	7.52
	185			0.5	5.41	1.0	5.50	1.6	5.65	2.2	5.86	2.8	6.12	3.4	6.42	3.9	6.76	4.4	7.12	4.8	7.52
	190			0.4	5.41	0.9	5.50	1.5	5.65	2.0	5.86	2.6	6.12	3.1	6.42	3.6	6.76	4.1	7.12	4.5	7.52
	195			0.4	5.41	0.8	5.50	1.3	5.65	1.8	5.86	2.4	6.12	2.9	6.42	3.3	6.76	3.7	7.12	4.1	7.52
	200			0.4	5.41	0.8	5.50	1.2	5.65	1.7	5.86	2.1	6.12	2.6	6.42	3.0	6.76	3.4	7.12	3.7	7.52
	205			0.3	5.41	0.7	5.50	1.1	5.65	1.5	5.86	1.9	6.12	2.3	6.42	2.7	6.76	3.1	7.12	3.3	7.52
	210			0.3	5.41	0.6	5.50	0.9	5.65	1.3	5.86	1.7	6.12	2.1	6.42	2.4	6.76	2.7	7.12	2.9	7.52
	215			0.2	5.41	0.5	5.50	0.8	5.65	1.2	5.86	1.5	6.12	1.8	6.42	2.1	6.76	2.4	7.12	2.6	7.52
	220			0.2	5.41	0.4	5.50	0.7	5.65	1.0	5.86	1.3	6.12	1.6	6.42	1.8	6.76	2.0	7.12	2.2	7.52
	225			0.1	5.41	0.3	5.50	0.6	5.65	0.8	5.86	1.1	6.12	1.3	6.42	1.5	6.76	1.7	7.12	1.8	7.52
	230			0.1	5.41	0.2	5.50	0.4	5.65	0.7	5.86	0.9	6.12	1.1	6.42	1.2	6.76	1.4	7.13	1.4	7.52
235			0.1	5.41	0.2	5.50	0.3	5.65	0.5	5.86	0.7	6.12	0.8	6.42	1.0	6.76	1.0	7.13	1.0	7.52	
4	175					0.6	5.41	1.3	5.50	2.0	5.65	2.6	5.86	3.3	6.12	3.9	6.42	4.5	6.76	5.1	7.13
	180					0.6	5.41	1.2	5.50	1.8	5.65	2.5	5.86	3.1	6.12	3.7	6.42	4.2	6.76	4.7	7.13
	185					0.5	5.41	1.1	5.50	1.7	5.65	2.3	5.86	2.9	6.12	3.4	6.42	3.9	6.76	4.4	7.12
	190					0.5	5.41	1.0	5.50	1.6	5.65	2.1	5.86	2.7	6.12	3.2	6.42	3.6	6.76	4.0	7.12
	195					0.5	5.41	0.9	5.50	1.4	5.65	2.0	5.86	2.5	6.12	2.9	6.42	3.3	6.76	3.7	7.12
	200					0.4	5.41	0.9	5.50	1.3	5.65	1.8	5.86	2.3	6.12	2.7	6.42	3.1	6.76	3.4	7.12

Table C.41. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 6

Start Inst. Wk	Start RIT	Ending Instructional Weeks																				
		Prior Grd		Focal Grade																		
		36		4	8	12	16	20	24	28	32	36										
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	205				0.4	5.41	0.8	5.50	1.2	5.65	1.6	5.86	2.0	6.12	2.4	6.42	2.8	6.76	3.0	7.12		
	210				0.3	5.41	0.7	5.50	1.1	5.65	1.5	5.86	1.8	6.12	2.2	6.42	2.5	6.76	2.7	7.12		
	215				0.3	5.41	0.6	5.50	0.9	5.65	1.3	5.86	1.6	6.12	1.9	6.42	2.2	6.76	2.3	7.12		
	220				0.2	5.41	0.5	5.50	0.8	5.65	1.1	5.86	1.4	6.12	1.7	6.42	1.9	6.76	2.0	7.12		
	225				0.2	5.41	0.4	5.50	0.7	5.65	0.9	5.86	1.2	6.12	1.4	6.42	1.6	6.76	1.7	7.12		
	230				0.2	5.41	0.3	5.50	0.6	5.65	0.8	5.86	1.0	6.12	1.2	6.42	1.3	6.76	1.3	7.13		
	235				0.1	5.41	0.3	5.50	0.4	5.65	0.6	5.86	0.8	6.12	0.9	6.42	1.0	6.76	1.0	7.13		
8	175						0.7	5.41	1.3	5.50	2.0	5.65	2.7	5.86	3.3	6.12	3.9	6.42	4.4	6.76		
	180						0.6	5.41	1.3	5.50	1.9	5.65	2.5	5.86	3.1	6.12	3.7	6.42	4.1	6.76		
	185						0.6	5.41	1.2	5.50	1.8	5.65	2.4	5.86	2.9	6.12	3.4	6.42	3.8	6.76		
	190						0.5	5.41	1.1	5.50	1.6	5.65	2.2	5.86	2.7	6.12	3.2	6.42	3.5	6.76		
	195						0.5	5.41	1.0	5.50	1.5	5.65	2.0	5.86	2.5	6.12	2.9	6.42	3.2	6.76		
	200						0.5	5.41	0.9	5.50	1.4	5.65	1.8	5.86	2.3	6.12	2.6	6.42	3.0	6.76		
	205						0.4	5.41	0.8	5.50	1.3	5.65	1.7	5.86	2.1	6.12	2.4	6.42	2.7	6.76		
	210						0.4	5.41	0.7	5.50	1.1	5.65	1.5	5.86	1.8	6.12	2.1	6.42	2.4	6.76		
	215						0.3	5.41	0.7	5.50	1.0	5.65	1.3	5.86	1.6	6.12	1.9	6.42	2.1	6.76		
	220						0.3	5.41	0.6	5.50	0.9	5.65	1.2	5.86	1.4	6.12	1.6	6.42	1.8	6.76		
	225						0.2	5.41	0.5	5.50	0.8	5.65	1.0	5.86	1.2	6.12	1.4	6.42	1.5	6.76		
	230						0.2	5.41	0.4	5.50	0.6	5.65	0.8	5.86	1.0	6.12	1.1	6.42	1.2	6.76		
	235						0.2	5.41	0.3	5.50	0.5	5.65	0.7	5.86	0.8	6.12	0.9	6.42	0.9	6.76		
12	175								0.7	5.41	1.4	5.50	2.0	5.65	2.7	5.86	3.3	6.12	3.8	6.42		
	180								0.6	5.41	1.3	5.50	1.9	5.65	2.5	5.86	3.0	6.12	3.5	6.42		
	185								0.6	5.41	1.2	5.50	1.8	5.65	2.3	5.86	2.8	6.12	3.3	6.42		
	190								0.6	5.41	1.1	5.50	1.7	5.65	2.2	5.86	2.6	6.12	3.0	6.42		
	195								0.5	5.41	1.0	5.50	1.5	5.65	2.0	5.86	2.4	6.12	2.8	6.42		
	200								0.5	5.41	0.9	5.50	1.4	5.65	1.8	5.86	2.2	6.12	2.5	6.42		
	205								0.4	5.41	0.9	5.50	1.3	5.65	1.7	5.86	2.0	6.12	2.3	6.42		
	210								0.4	5.41	0.8	5.50	1.1	5.65	1.5	5.86	1.8	6.12	2.0	6.42		
	215								0.3	5.41	0.7	5.50	1.0	5.65	1.3	5.86	1.6	6.12	1.7	6.42		
	220								0.3	5.41	0.6	5.50	0.9	5.65	1.1	5.86	1.4	6.12	1.5	6.42		
	225								0.3	5.41	0.5	5.50	0.8	5.65	1.0	5.86	1.1	6.12	1.2	6.42		
	230								0.2	5.41	0.4	5.50	0.6	5.65	0.8	5.86	0.9	6.12	1.0	6.42		
	235								0.2	5.41	0.4	5.50	0.5	5.65	0.6	5.86	0.7	6.12	0.7	6.42		
16	175										0.7	5.41	1.4	5.50	2.0	5.65	2.6	5.86	3.1	6.12		

Table C.41. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 6

Start Inst. Wk	Start RIT	Ending Instructional Weeks																					
		Prior Grd		Focal Grade																			
		36		4		8		12		16		20		24		28		32		36			
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
180											0.6	5.41	1.3	5.50	1.9	5.65	2.4	5.86	2.9	6.12			
185											0.6	5.41	1.2	5.50	1.7	5.65	2.2	5.86	2.7	6.12			
190											0.6	5.41	1.1	5.50	1.6	5.65	2.1	5.86	2.5	6.12			
195											0.5	5.41	1.0	5.50	1.5	5.65	1.9	5.86	2.3	6.12			
200											0.5	5.41	0.9	5.50	1.4	5.65	1.7	5.86	2.0	6.12			
205											0.4	5.41	0.8	5.50	1.2	5.65	1.6	5.86	1.8	6.12			
210											0.4	5.41	0.8	5.50	1.1	5.65	1.4	5.86	1.6	6.12			
215											0.3	5.41	0.7	5.50	1.0	5.65	1.2	5.86	1.4	6.12			
220											0.3	5.41	0.6	5.50	0.9	5.65	1.1	5.86	1.2	6.12			
225											0.3	5.41	0.5	5.50	0.7	5.65	0.9	5.86	1.0	6.12			
230											0.2	5.41	0.4	5.50	0.6	5.65	0.7	5.86	0.8	6.12			
235											0.2	5.41	0.3	5.50	0.5	5.65	0.5	5.86	0.6	6.12			
20	175													0.7	5.41	1.3	5.50	1.9	5.65	2.4	5.86		
	180													0.6	5.41	1.2	5.50	1.8	5.65	2.2	5.86		
	185													0.6	5.41	1.1	5.50	1.6	5.65	2.1	5.86		
	190													0.5	5.41	1.1	5.50	1.5	5.65	1.9	5.86		
	195													0.5	5.41	1.0	5.50	1.4	5.65	1.7	5.86		
	200													0.5	5.41	0.9	5.50	1.3	5.65	1.6	5.86		
	205													0.4	5.41	0.8	5.50	1.1	5.65	1.4	5.86		
	210													0.4	5.41	0.7	5.50	1.0	5.65	1.2	5.86		
	215													0.3	5.41	0.6	5.50	0.9	5.65	1.1	5.86		
	220													0.3	5.41	0.5	5.50	0.8	5.65	0.9	5.86		
	225													0.3	5.41	0.5	5.50	0.6	5.65	0.7	5.86		
	230													0.2	5.41	0.4	5.50	0.5	5.65	0.6	5.86		
	235													0.2	5.41	0.3	5.50	0.4	5.65	0.4	5.86		

Table C.42. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 7

Start Inst.	Start Wk	Start RIT	Ending Instructional Weeks																		
			Prior Grd		Focal Grade																
			36		4		8		12		16		20		24		28		32		36
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 6)	175	0.6	5.41	1.2	5.51	2.0	5.68	2.7	5.90	3.5	6.18	4.3	6.50	5.1	6.86	5.9	7.25	6.6	7.68	7.3	8.12
	180	0.5	5.41	1.1	5.51	1.8	5.68	2.5	5.90	3.2	6.18	4.0	6.50	4.7	6.86	5.4	7.25	6.1	7.68	6.7	8.12
	185	0.5	5.41	1.0	5.51	1.6	5.68	2.3	5.90	3.0	6.18	3.6	6.50	4.3	6.86	5.0	7.25	5.6	7.68	6.1	8.12
	190	0.4	5.41	0.9	5.51	1.4	5.68	2.0	5.90	2.7	6.18	3.3	6.50	3.9	6.86	4.5	7.25	5.1	7.68	5.6	8.12
	195	0.4	5.41	0.8	5.51	1.3	5.68	1.8	5.90	2.4	6.18	2.9	6.50	3.5	6.86	4.0	7.25	4.5	7.68	5.0	8.12
	200	0.3	5.41	0.7	5.51	1.1	5.68	1.6	5.90	2.1	6.18	2.6	6.50	3.1	6.86	3.6	7.25	4.0	7.68	4.4	8.12
	205	0.2	5.41	0.5	5.51	0.9	5.68	1.3	5.90	1.8	6.18	2.2	6.50	2.7	6.86	3.1	7.25	3.5	7.68	3.8	8.12
	210	0.2	5.41	0.4	5.51	0.7	5.68	1.1	5.90	1.5	6.18	1.9	6.50	2.3	6.86	2.6	7.25	3.0	7.68	3.2	8.12
	215	0.1	5.41	0.3	5.51	0.6	5.68	0.9	5.90	1.2	6.18	1.5	6.50	1.9	6.86	2.2	7.25	2.4	7.68	2.6	8.12
	220	0.1	5.41	0.2	5.51	0.4	5.68	0.6	5.90	0.9	6.18	1.2	6.50	1.5	6.86	1.7	7.25	1.9	7.68	2.0	8.12
	225	0.0	5.41	0.1	5.51	0.2	5.68	0.4	5.90	0.6	6.18	0.8	6.50	1.1	6.86	1.2	7.25	1.4	7.68	1.5	8.12
	230	-0.1	5.41	-0.1	5.51	0.0	5.68	0.2	5.90	0.3	6.18	0.5	6.50	0.6	6.86	0.8	7.25	0.9	7.68	0.9	8.12
	235	-0.1	5.41	-0.2	5.51	-0.1	5.68	-0.1	5.90	0.0	6.18	0.1	6.50	0.2	6.86	0.3	7.25	0.3	7.68	0.3	8.12
240	-0.2	5.41	-0.3	5.51	-0.3	5.68	-0.3	5.90	-0.3	6.18	-0.2	6.50	-0.2	6.86	-0.2	7.25	-0.2	7.68	-0.3	8.12	
36 (Gd 6)	175			0.7	5.41	1.4	5.51	2.2	5.68	3.0	5.90	3.8	6.18	4.6	6.50	5.3	6.86	6.1	7.25	6.7	7.68
	180			0.6	5.41	1.3	5.51	2.0	5.68	2.7	5.90	3.5	6.18	4.2	6.50	4.9	6.86	5.6	7.25	6.2	7.68
	185			0.5	5.41	1.2	5.51	1.8	5.68	2.5	5.90	3.2	6.18	3.9	6.50	4.5	6.86	5.1	7.25	5.7	7.68
	190			0.5	5.41	1.0	5.51	1.6	5.68	2.3	5.90	2.9	6.18	3.5	6.50	4.1	6.86	4.7	7.25	5.2	7.68
	195			0.4	5.41	0.9	5.51	1.5	5.68	2.0	5.90	2.6	6.18	3.2	6.50	3.7	6.86	4.2	7.25	4.6	7.68
	200			0.4	5.41	0.8	5.51	1.3	5.68	1.8	5.90	2.3	6.18	2.8	6.50	3.3	6.86	3.7	7.25	4.1	7.68
	205			0.3	5.41	0.7	5.51	1.1	5.68	1.6	5.90	2.0	6.18	2.5	6.50	2.9	6.86	3.3	7.25	3.6	7.68
	210			0.3	5.41	0.6	5.51	0.9	5.68	1.3	5.90	1.7	6.18	2.1	6.50	2.5	6.86	2.8	7.25	3.0	7.68
	215			0.2	5.41	0.5	5.51	0.8	5.68	1.1	5.90	1.4	6.18	1.8	6.50	2.1	6.86	2.3	7.25	2.5	7.68
	220			0.1	5.41	0.3	5.51	0.6	5.68	0.9	5.90	1.1	6.18	1.4	6.50	1.7	6.86	1.9	7.25	2.0	7.68
	225			0.1	5.41	0.2	5.51	0.4	5.68	0.6	5.90	0.8	6.18	1.1	6.50	1.2	6.86	1.4	7.25	1.5	7.68
	230			0.0	5.41	0.1	5.51	0.2	5.68	0.4	5.90	0.5	6.18	0.7	6.50	0.8	6.86	0.9	7.25	0.9	7.68
	235			0.0	5.41	0.0	5.51	0.1	5.68	0.2	5.90	0.3	6.18	0.4	6.50	0.4	6.86	0.5	7.25	0.4	7.68
240			-0.1	5.41	-0.1	5.51	-0.1	5.68	-0.1	5.90	0.0	6.18	0.0	6.50	0.0	6.86	0.0	7.25	-0.1	7.68	
4	175					0.7	5.41	1.5	5.51	2.3	5.68	3.1	5.90	3.9	6.18	4.7	6.50	5.4	6.86	6.1	7.25
	180					0.7	5.41	1.4	5.51	2.1	5.68	2.9	5.90	3.6	6.18	4.3	6.50	5.0	6.86	5.6	7.25
	185					0.6	5.41	1.3	5.51	1.9	5.68	2.6	5.90	3.3	6.18	4.0	6.50	4.6	6.86	5.1	7.25
	190					0.6	5.41	1.1	5.51	1.8	5.68	2.4	5.90	3.0	6.18	3.6	6.50	4.2	6.86	4.7	7.25

Table C.42. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 7

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36	4	8	12	16	20	24	28	32	36								
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	195			0.5	5.41	1.0	5.51	1.6	5.68	2.2	5.90	2.7	6.18	3.3	6.50	3.8	6.86	4.2	7.25
	200			0.4	5.41	0.9	5.51	1.4	5.68	1.9	5.90	2.4	6.18	2.9	6.50	3.4	6.86	3.7	7.25
	205			0.4	5.41	0.8	5.51	1.2	5.68	1.7	5.90	2.1	6.18	2.6	6.50	2.9	6.86	3.3	7.25
	210			0.3	5.41	0.7	5.51	1.1	5.68	1.5	5.90	1.9	6.18	2.2	6.50	2.5	6.86	2.8	7.25
	215			0.3	5.41	0.6	5.51	0.9	5.68	1.2	5.90	1.6	6.18	1.9	6.50	2.1	6.86	2.3	7.25
	220			0.2	5.41	0.4	5.51	0.7	5.68	1.0	5.90	1.3	6.18	1.5	6.50	1.7	6.86	1.9	7.25
	225			0.1	5.41	0.3	5.51	0.5	5.68	0.8	5.90	1.0	6.18	1.2	6.50	1.3	6.86	1.4	7.25
	230			0.1	5.41	0.2	5.51	0.4	5.68	0.5	5.90	0.7	6.18	0.8	6.50	0.9	6.86	0.9	7.25
	235			0.0	5.41	0.1	5.51	0.2	5.68	0.3	5.90	0.4	6.18	0.5	6.50	0.5	6.86	0.5	7.25
	240			0.0	5.41	0.0	5.51	0.0	5.68	0.1	5.90	0.1	6.18	0.1	6.50	0.1	6.86	0.0	7.25
8	175					0.8	5.41	1.6	5.51	2.4	5.68	3.2	5.90	4.0	6.18	4.7	6.50	5.3	6.86
	180					0.7	5.41	1.5	5.51	2.2	5.68	2.9	5.90	3.7	6.18	4.3	6.50	4.9	6.86
	185					0.7	5.41	1.3	5.51	2.0	5.68	2.7	5.90	3.4	6.18	4.0	6.50	4.5	6.86
	190					0.6	5.41	1.2	5.51	1.9	5.68	2.5	5.90	3.1	6.18	3.6	6.50	4.1	6.86
	195					0.5	5.41	1.1	5.51	1.7	5.68	2.2	5.90	2.8	6.18	3.3	6.50	3.7	6.86
	200					0.5	5.41	1.0	5.51	1.5	5.68	2.0	5.90	2.5	6.18	2.9	6.50	3.3	6.86
	205					0.4	5.41	0.9	5.51	1.3	5.68	1.8	5.90	2.2	6.18	2.6	6.50	2.9	6.86
	210					0.4	5.41	0.8	5.51	1.2	5.68	1.5	5.90	1.9	6.18	2.2	6.50	2.5	6.86
	215					0.3	5.41	0.6	5.51	1.0	5.68	1.3	5.90	1.6	6.18	1.9	6.50	2.1	6.86
	220					0.2	5.41	0.5	5.51	0.8	5.68	1.1	5.90	1.3	6.18	1.5	6.50	1.7	6.86
	225					0.2	5.41	0.4	5.51	0.6	5.68	0.8	5.90	1.0	6.18	1.2	6.50	1.3	6.86
	230					0.1	5.41	0.3	5.51	0.4	5.68	0.6	5.90	0.7	6.18	0.8	6.50	0.8	6.86
	235					0.1	5.41	0.2	5.51	0.3	5.68	0.4	5.90	0.4	6.18	0.5	6.50	0.4	6.86
	240					0.0	5.41	0.1	5.51	0.1	5.68	0.1	5.90	0.1	6.18	0.1	6.50	0.0	6.86
12	180							0.7	5.41	1.5	5.51	2.2	5.68	2.9	5.90	3.6	6.18	4.2	6.50
	185							0.7	5.41	1.4	5.51	2.1	5.68	2.7	5.90	3.3	6.18	3.9	6.50
	190							0.6	5.41	1.3	5.51	1.9	5.68	2.5	5.90	3.0	6.18	3.5	6.50
	195							0.6	5.41	1.1	5.51	1.7	5.68	2.2	5.90	2.7	6.18	3.2	6.50
	200							0.5	5.41	1.0	5.51	1.5	5.68	2.0	5.90	2.4	6.18	2.8	6.50
	205							0.5	5.41	0.9	5.51	1.4	5.68	1.8	5.90	2.2	6.18	2.5	6.50
	210							0.4	5.41	0.8	5.51	1.2	5.68	1.5	5.90	1.9	6.18	2.1	6.50
	215							0.3	5.41	0.7	5.51	1.0	5.68	1.3	5.90	1.6	6.18	1.8	6.50
	220							0.3	5.41	0.6	5.51	0.8	5.68	1.1	5.90	1.3	6.18	1.4	6.50
	225							0.2	5.41	0.4	5.51	0.7	5.68	0.8	5.90	1.0	6.18	1.1	6.50

Table C.42. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 7

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
	230									0.2	5.41	0.3	5.51	0.5	5.68	0.6	5.90	0.7	6.18	0.7	6.50
	235									0.1	5.41	0.2	5.51	0.3	5.68	0.4	5.90	0.4	6.18	0.4	6.50
	240									0.0	5.41	0.1	5.51	0.1	5.68	0.1	5.90	0.1	6.18	0.0	6.50
16	180											0.8	5.41	1.5	5.51	2.2	5.68	2.9	5.90	3.5	6.18
	185											0.7	5.41	1.4	5.51	2.0	5.68	2.6	5.90	3.2	6.18
	190											0.6	5.41	1.3	5.51	1.9	5.68	2.4	5.90	2.9	6.18
	195											0.6	5.41	1.1	5.51	1.7	5.68	2.2	5.90	2.6	6.18
	200											0.5	5.41	1.0	5.51	1.5	5.68	1.9	5.90	2.3	6.18
	205											0.5	5.41	0.9	5.51	1.3	5.68	1.7	5.90	2.0	6.18
	210											0.4	5.41	0.8	5.51	1.2	5.68	1.5	5.90	1.7	6.18
	215											0.3	5.41	0.7	5.51	1.0	5.68	1.2	5.90	1.4	6.18
	220											0.3	5.41	0.6	5.51	0.8	5.68	1.0	5.90	1.1	6.18
	225											0.2	5.41	0.4	5.51	0.6	5.68	0.8	5.90	0.9	6.18
	230											0.2	5.41	0.3	5.51	0.5	5.68	0.5	5.90	0.6	6.18
	235											0.1	5.41	0.2	5.51	0.3	5.68	0.3	5.90	0.3	6.18
	240											0.1	5.41	0.1	5.51	0.1	5.68	0.1	5.90	0.0	6.18
20	180													0.7	5.41	1.5	5.51	2.1	5.68	2.7	5.90
	185													0.7	5.41	1.3	5.51	2.0	5.68	2.5	5.90
	190													0.6	5.41	1.2	5.51	1.8	5.68	2.3	5.90
	195													0.6	5.41	1.1	5.51	1.6	5.68	2.0	5.90
	200													0.5	5.41	1.0	5.51	1.4	5.68	1.8	5.90
	205													0.5	5.41	0.9	5.51	1.3	5.68	1.6	5.90
	210													0.4	5.41	0.8	5.51	1.1	5.68	1.3	5.90
	215													0.3	5.41	0.6	5.51	0.9	5.68	1.1	5.90
	220													0.3	5.41	0.5	5.51	0.7	5.68	0.9	5.90
	225													0.2	5.41	0.4	5.51	0.6	5.68	0.6	5.90
	230													0.2	5.41	0.3	5.51	0.4	5.68	0.4	5.90
	235													0.1	5.41	0.2	5.51	0.2	5.68	0.2	5.90
	240													0.0	5.41	0.1	5.51	0.0	5.68	-0.1	5.90

Table C.43. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 7)	180	0.6	5.42	1.2	5.55	1.9	5.76	2.6	6.04	3.2	6.38	3.9	6.78	4.5	7.22	5.0	7.70	5.4	8.21	5.8	8.74
	185	0.5	5.42	1.1	5.55	1.7	5.76	2.4	6.04	3.0	6.38	3.6	6.78	4.2	7.22	4.6	7.70	5.0	8.21	5.3	8.74
	190	0.5	5.42	1.0	5.55	1.6	5.76	2.2	6.04	2.8	6.38	3.3	6.78	3.8	7.22	4.3	7.70	4.6	8.21	4.8	8.74
	195	0.4	5.42	0.9	5.55	1.5	5.76	2.0	6.04	2.5	6.38	3.1	6.78	3.5	7.22	3.9	7.70	4.2	8.20	4.4	8.74
	200	0.4	5.42	0.8	5.55	1.3	5.76	1.8	6.04	2.3	6.38	2.8	6.78	3.2	7.22	3.5	7.70	3.8	8.20	3.9	8.74
	205	0.4	5.42	0.8	5.55	1.2	5.76	1.6	6.04	2.1	6.38	2.5	6.78	2.9	7.22	3.2	7.70	3.4	8.20	3.5	8.74
	210	0.3	5.42	0.7	5.55	1.1	5.76	1.5	6.04	1.9	6.38	2.2	6.78	2.5	7.22	2.8	7.70	3.0	8.20	3.0	8.74
	215	0.3	5.42	0.6	5.55	0.9	5.76	1.3	6.04	1.6	6.38	2.0	6.78	2.2	7.22	2.4	7.70	2.5	8.20	2.5	8.74
	220	0.2	5.42	0.5	5.55	0.8	5.76	1.1	6.04	1.4	6.38	1.7	6.78	1.9	7.22	2.1	7.70	2.1	8.20	2.1	8.74
	225	0.2	5.42	0.4	5.55	0.6	5.76	0.9	6.04	1.2	6.38	1.4	6.78	1.6	7.22	1.7	7.70	1.7	8.20	1.6	8.74
	230	0.1	5.42	0.3	5.55	0.5	5.76	0.7	6.04	0.9	6.38	1.1	6.78	1.3	7.22	1.3	7.70	1.3	8.21	1.2	8.74
	235	0.1	5.42	0.2	5.55	0.4	5.76	0.5	6.04	0.7	6.38	0.8	6.78	0.9	7.22	1.0	7.70	0.9	8.21	0.7	8.74
240	0.0	5.42	0.1	5.55	0.2	5.76	0.4	6.04	0.5	6.38	0.6	6.78	0.6	7.22	0.6	7.70	0.5	8.21	0.2	8.74	
36 (Gd 7)	180			0.6	5.42	1.3	5.55	2.0	5.76	2.7	6.04	3.3	6.38	3.9	6.78	4.4	7.22	4.9	7.70	5.2	8.21
	185			0.6	5.42	1.2	5.55	1.8	5.76	2.5	6.04	3.1	6.38	3.6	6.78	4.1	7.22	4.5	7.70	4.8	8.21
	190			0.5	5.42	1.1	5.55	1.7	5.76	2.3	6.04	2.8	6.38	3.3	6.78	3.8	7.22	4.1	7.70	4.4	8.21
	195			0.5	5.42	1.0	5.55	1.6	5.76	2.1	6.04	2.6	6.38	3.1	6.78	3.5	7.22	3.8	7.70	3.9	8.20
	200			0.5	5.42	0.9	5.55	1.4	5.76	1.9	6.04	2.4	6.38	2.8	6.78	3.1	7.22	3.4	7.70	3.5	8.20
	205			0.4	5.42	0.8	5.55	1.3	5.76	1.7	6.04	2.2	6.38	2.5	6.78	2.8	7.22	3.0	7.70	3.1	8.20
	210			0.4	5.42	0.8	5.55	1.2	5.76	1.6	6.04	1.9	6.38	2.2	6.78	2.5	7.22	2.7	7.70	2.7	8.20
	215			0.3	5.42	0.7	5.55	1.0	5.76	1.4	6.04	1.7	6.38	2.0	6.78	2.2	7.22	2.3	7.70	2.3	8.20
	220			0.3	5.42	0.6	5.55	0.9	5.76	1.2	6.04	1.5	6.38	1.7	6.78	1.9	7.22	1.9	7.70	1.9	8.20
	225			0.2	5.42	0.5	5.55	0.7	5.76	1.0	6.04	1.2	6.38	1.4	6.78	1.5	7.22	1.5	7.70	1.5	8.20
	230			0.2	5.42	0.4	5.55	0.6	5.76	0.8	6.04	1.0	6.38	1.1	6.78	1.2	7.22	1.2	7.70	1.0	8.21
	235			0.1	5.42	0.3	5.55	0.5	5.76	0.6	6.04	0.8	6.38	0.9	6.78	0.9	7.22	0.8	7.70	0.6	8.21
240			0.1	5.42	0.2	5.55	0.3	5.76	0.5	6.04	0.5	6.38	0.6	6.78	0.6	7.22	0.4	7.70	0.2	8.21	
4	180					0.7	5.42	1.4	5.55	2.0	5.76	2.7	6.04	3.3	6.38	3.8	6.78	4.2	7.22	4.5	7.70
	185					0.6	5.42	1.3	5.55	1.9	5.76	2.5	6.04	3.0	6.38	3.5	6.78	3.9	7.22	4.2	7.70
	190					0.6	5.42	1.2	5.55	1.8	5.76	2.3	6.04	2.8	6.38	3.2	6.78	3.6	7.22	3.8	7.70
	195					0.5	5.42	1.1	5.55	1.6	5.76	2.1	6.04	2.6	6.38	3.0	6.78	3.3	7.22	3.4	7.70
	200					0.5	5.42	1.0	5.55	1.5	5.76	1.9	6.04	2.3	6.38	2.7	6.78	2.9	7.22	3.1	7.70
	205					0.4	5.42	0.9	5.55	1.3	5.76	1.8	6.04	2.1	6.38	2.4	6.78	2.6	7.22	2.7	7.70

Table C.43. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																				
		Prior Grd		Focal Grade																		
		36		4	8	12	16	20	24	28	32	36										
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	210				0.4	5.42	0.8	5.55	1.2	5.76	1.6	6.04	1.9	6.38	2.1	6.78	2.3	7.22	2.3	7.70		
	215				0.4	5.42	0.7	5.55	1.1	5.76	1.4	6.04	1.7	6.38	1.9	6.78	2.0	7.22	2.0	7.70		
	220				0.3	5.42	0.6	5.55	0.9	5.76	1.2	6.04	1.4	6.38	1.6	6.78	1.7	7.22	1.6	7.70		
	225				0.3	5.42	0.5	5.55	0.8	5.76	1.0	6.04	1.2	6.38	1.3	6.78	1.3	7.22	1.2	7.70		
	230				0.2	5.42	0.4	5.55	0.6	5.76	0.8	6.04	1.0	6.38	1.0	6.78	1.0	7.22	0.9	7.70		
	235				0.2	5.42	0.3	5.55	0.5	5.76	0.6	6.04	0.7	6.38	0.8	6.78	0.7	7.22	0.5	7.70		
	240				0.1	5.42	0.3	5.55	0.4	5.76	0.5	6.04	0.5	6.38	0.5	6.78	0.4	7.22	0.1	7.70		
8	180						0.7	5.42	1.4	5.55	2.0	5.76	2.6	6.04	3.1	6.38	3.6	6.78	3.9	7.22		
	185						0.6	5.42	1.3	5.55	1.9	5.76	2.4	6.04	2.9	6.38	3.3	6.78	3.6	7.22		
	190						0.6	5.42	1.2	5.55	1.7	5.76	2.2	6.04	2.7	6.38	3.0	6.78	3.2	7.22		
	195						0.5	5.42	1.1	5.55	1.6	5.76	2.0	6.04	2.4	6.38	2.7	6.78	2.9	7.22		
	200						0.5	5.42	1.0	5.55	1.5	5.76	1.9	6.04	2.2	6.38	2.5	6.78	2.6	7.22		
	205						0.5	5.42	0.9	5.55	1.3	5.76	1.7	6.04	2.0	6.38	2.2	6.78	2.3	7.22		
	210						0.4	5.42	0.8	5.55	1.2	5.76	1.5	6.04	1.7	6.38	1.9	6.78	1.9	7.22		
	215						0.4	5.42	0.7	5.55	1.0	5.76	1.3	6.04	1.5	6.38	1.6	6.78	1.6	7.22		
	220						0.3	5.42	0.6	5.55	0.9	5.76	1.1	6.04	1.3	6.38	1.4	6.78	1.3	7.22		
	225						0.3	5.42	0.5	5.55	0.8	5.76	0.9	6.04	1.1	6.38	1.1	6.78	1.0	7.22		
	230						0.2	5.42	0.4	5.55	0.6	5.76	0.8	6.04	0.8	6.38	0.8	6.78	0.7	7.22		
	235						0.2	5.42	0.3	5.55	0.5	5.76	0.6	6.04	0.6	6.38	0.5	6.78	0.3	7.22		
240						0.1	5.42	0.3	5.55	0.3	5.76	0.4	6.04	0.4	6.38	0.2	6.78	0.0	7.22			
12	180						0.7	5.42	1.3	5.55	1.9	5.76	2.4	6.04	2.9	6.38	3.2	6.78				
	185						0.6	5.42	1.2	5.55	1.8	5.76	2.3	6.04	2.6	6.38	2.9	6.78				
	190						0.6	5.42	1.1	5.55	1.6	5.76	2.1	6.04	2.4	6.38	2.6	6.78				
	195						0.5	5.42	1.0	5.55	1.5	5.76	1.9	6.04	2.2	6.38	2.4	6.78				
	200						0.5	5.42	1.0	5.55	1.4	5.76	1.7	6.04	2.0	6.38	2.1	6.78				
	205						0.4	5.42	0.9	5.55	1.2	5.76	1.5	6.04	1.7	6.38	1.8	6.78				
	210						0.4	5.42	0.8	5.55	1.1	5.76	1.3	6.04	1.5	6.38	1.5	6.78				
	215						0.4	5.42	0.7	5.55	1.0	5.76	1.2	6.04	1.3	6.38	1.3	6.78				
	220						0.3	5.42	0.6	5.55	0.8	5.76	1.0	6.04	1.0	6.38	1.0	6.78				
	225						0.3	5.42	0.5	5.55	0.7	5.76	0.8	6.04	0.8	6.38	0.7	6.78				
	230						0.2	5.42	0.4	5.55	0.5	5.76	0.6	6.04	0.6	6.38	0.4	6.78				
	235						0.2	5.42	0.3	5.55	0.4	5.76	0.4	6.04	0.3	6.38	0.2	6.78				
240						0.1	5.42	0.2	5.55	0.3	5.76	0.2	6.04	0.1	6.38	-0.1	6.78					
16	180									0.6	5.42	1.2	5.55	1.8	5.76	2.2	6.04	2.5	6.38			

Table C.43. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 8

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4	8	12	16	20	24	28	32	36									
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	185									0.6	5.42	1.2	5.55	1.6	5.76	2.0	6.04	2.3	6.38		
	190									0.6	5.42	1.1	5.55	1.5	5.76	1.8	6.04	2.1	6.38		
	195									0.5	5.42	1.0	5.55	1.4	5.76	1.7	6.04	1.8	6.38		
	200									0.5	5.42	0.9	5.55	1.2	5.76	1.5	6.04	1.6	6.38		
	205									0.4	5.42	0.8	5.55	1.1	5.76	1.3	6.04	1.4	6.38		
	210									0.4	5.42	0.7	5.55	0.9	5.76	1.1	6.04	1.1	6.38		
	215									0.3	5.42	0.6	5.55	0.8	5.76	0.9	6.04	0.9	6.38		
	220									0.3	5.42	0.5	5.55	0.7	5.76	0.7	6.04	0.7	6.38		
	225									0.2	5.42	0.4	5.55	0.5	5.76	0.5	6.04	0.5	6.38		
	230									0.2	5.42	0.3	5.55	0.4	5.76	0.4	6.04	0.2	6.38		
	235									0.1	5.42	0.2	5.55	0.3	5.76	0.2	6.04	0.0	6.38		
	240									0.1	5.42	0.1	5.55	0.1	5.76	0.0	6.04	-0.2	6.38		
20	180													0.6	5.42	1.1	5.55	1.6	5.76	1.9	6.04
	185													0.6	5.42	1.0	5.55	1.4	5.76	1.7	6.04
	190													0.5	5.42	0.9	5.55	1.3	5.76	1.5	6.04
	195													0.5	5.42	0.8	5.55	1.1	5.76	1.3	6.04
	200													0.4	5.42	0.8	5.55	1.0	5.76	1.1	6.04
	205													0.4	5.42	0.7	5.55	0.9	5.76	1.0	6.04
	210													0.3	5.42	0.6	5.55	0.7	5.76	0.8	6.04
	215													0.3	5.42	0.5	5.55	0.6	5.76	0.6	6.04
	220													0.2	5.42	0.4	5.55	0.5	5.76	0.4	6.04
	225													0.2	5.42	0.3	5.55	0.3	5.76	0.2	6.04
	230													0.1	5.42	0.2	5.55	0.2	5.76	0.0	6.04
	235													0.1	5.42	0.1	5.55	0.0	5.76	-0.2	6.04
	240													0.0	5.42	0.0	5.55	-0.1	5.76	-0.3	6.04
	245													0.0	5.42	-0.1	5.55	-0.2	5.76	-0.5	6.04

Table C.44. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36		4		8		12		16		20		24		28		32		36	
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
32 (Gd 8)	180	0.1	5.43	0.2	5.58	0.4	5.82	0.6	6.14	0.9	6.53	1.2	6.98	1.6	7.48	2.0	8.01	2.3	8.57	2.7	9.16
	185	0.1	5.43	0.2	5.58	0.3	5.82	0.6	6.14	0.8	6.53	1.1	6.98	1.5	7.48	1.8	8.01	2.2	8.57	2.5	9.16
	190	0.0	5.43	0.1	5.58	0.3	5.82	0.5	6.14	0.7	6.53	1.0	6.98	1.3	7.48	1.7	8.01	2.0	8.57	2.3	9.16
	195	0.0	5.43	0.1	5.58	0.2	5.82	0.4	6.14	0.6	6.53	0.9	6.98	1.2	7.48	1.5	8.01	1.8	8.57	2.1	9.16
	200	0.0	5.43	0.0	5.58	0.2	5.82	0.3	6.14	0.5	6.53	0.8	6.98	1.1	7.47	1.3	8.01	1.6	8.57	1.9	9.16
	205	0.0	5.43	0.0	5.58	0.1	5.82	0.3	6.14	0.4	6.53	0.7	6.98	0.9	7.47	1.2	8.01	1.5	8.57	1.8	9.16
	210	-0.1	5.43	0.0	5.58	0.0	5.82	0.2	6.14	0.3	6.53	0.5	6.98	0.8	7.47	1.0	8.01	1.3	8.57	1.6	9.16
	215	-0.1	5.43	-0.1	5.58	0.0	5.82	0.1	6.14	0.2	6.53	0.4	6.98	0.6	7.47	0.9	8.01	1.1	8.57	1.4	9.16
	220	-0.1	5.43	-0.1	5.58	-0.1	5.82	0.0	6.14	0.1	6.53	0.3	6.98	0.5	7.47	0.7	8.01	0.9	8.57	1.2	9.16
	225	-0.1	5.43	-0.2	5.58	-0.1	5.82	-0.1	6.14	0.1	6.53	0.2	6.98	0.4	7.47	0.6	8.01	0.8	8.57	1.0	9.16
	230	-0.1	5.43	-0.2	5.58	-0.2	5.82	-0.1	6.14	-0.1	6.53	0.1	6.98	0.2	7.48	0.4	8.01	0.6	8.57	0.8	9.16
	235	-0.2	5.43	-0.2	5.58	-0.3	5.82	-0.2	6.14	-0.2	6.53	0.0	6.98	0.1	7.48	0.3	8.01	0.4	8.57	0.6	9.16
	240	-0.2	5.43	-0.3	5.58	-0.3	5.82	-0.3	6.14	-0.3	6.53	-0.2	6.98	0.0	7.48	0.1	8.01	0.2	8.57	0.4	9.16
	245	-0.2	5.43	-0.3	5.58	-0.4	5.82	-0.4	6.14	-0.3	6.53	-0.3	6.98	-0.2	7.48	-0.1	8.01	0.1	8.57	0.2	9.16
250	-0.2	5.43	-0.3	5.58	-0.4	5.82	-0.5	6.14	-0.4	6.53	-0.4	6.98	-0.3	7.48	-0.2	8.01	-0.1	8.57	0.0	9.16	
36 (Gd 8)	180			0.1	5.43	0.3	5.58	0.6	5.82	0.9	6.14	1.2	6.53	1.5	6.98	1.9	7.48	2.3	8.01	2.7	8.57
	185			0.1	5.43	0.3	5.58	0.5	5.82	0.8	6.14	1.1	6.53	1.4	6.98	1.8	7.48	2.1	8.01	2.5	8.57
	190			0.1	5.43	0.3	5.58	0.5	5.82	0.7	6.14	1.0	6.53	1.3	6.98	1.6	7.48	2.0	8.01	2.3	8.57
	195			0.1	5.43	0.2	5.58	0.4	5.82	0.6	6.14	0.9	6.53	1.2	6.98	1.5	7.48	1.8	8.01	2.1	8.57
	200			0.1	5.43	0.2	5.58	0.3	5.82	0.5	6.14	0.8	6.53	1.1	6.98	1.4	7.47	1.7	8.01	2.0	8.57
	205			0.0	5.43	0.1	5.58	0.3	5.82	0.5	6.14	0.7	6.53	0.9	6.98	1.2	7.47	1.5	8.01	1.8	8.57
	210			0.0	5.43	0.1	5.58	0.2	5.82	0.4	6.14	0.6	6.53	0.8	6.98	1.1	7.47	1.3	8.01	1.6	8.57
	215			0.0	5.43	0.1	5.58	0.2	5.82	0.3	6.14	0.5	6.53	0.7	6.98	0.9	7.47	1.2	8.01	1.4	8.57
	220			0.0	5.43	0.0	5.58	0.1	5.82	0.2	6.14	0.4	6.53	0.6	6.98	0.8	7.47	1.0	8.01	1.3	8.57
	225			0.0	5.43	0.0	5.58	0.0	5.82	0.2	6.14	0.3	6.53	0.5	6.98	0.7	7.47	0.9	8.01	1.1	8.57
	230			-0.1	5.43	-0.1	5.58	0.0	5.82	0.1	6.14	0.2	6.53	0.4	6.98	0.5	7.48	0.7	8.01	0.9	8.57
235			-0.1	5.43	-0.1	5.58	-0.1	5.82	0.0	6.14	0.1	6.53	0.2	6.98	0.4	7.48	0.6	8.01	0.7	8.57	
240			-0.1	5.43	-0.1	5.58	-0.1	5.82	-0.1	6.14	0.0	6.53	0.1	6.98	0.3	7.48	0.4	8.01	0.6	8.57	
245			-0.1	5.43	-0.2	5.58	-0.2	5.82	-0.2	6.14	-0.1	6.53	0.0	6.98	0.1	7.48	0.3	8.01	0.4	8.57	
4	180					0.2	5.43	0.4	5.58	0.7	5.82	1.0	6.14	1.4	6.53	1.8	6.98	2.1	7.48	2.5	8.01
	185					0.2	5.43	0.4	5.58	0.7	5.82	1.0	6.14	1.3	6.53	1.6	6.98	2.0	7.48	2.4	8.01
	190					0.2	5.43	0.4	5.58	0.6	5.82	0.9	6.14	1.2	6.53	1.5	6.98	1.9	7.48	2.2	8.01

Table C.44. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																		
		Prior Grd		Focal Grade																
		36		4	8	12	16	20	24	28	32	36								
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	195				0.1	5.43	0.3	5.58	0.6	5.82	0.8	6.14	1.1	6.53	1.4	6.98	1.7	7.48	2.1	8.01
	200				0.1	5.43	0.3	5.58	0.5	5.82	0.7	6.14	1.0	6.53	1.3	6.98	1.6	7.47	1.9	8.01
	205				0.1	5.43	0.2	5.58	0.4	5.82	0.7	6.14	0.9	6.53	1.2	6.98	1.5	7.47	1.7	8.01
	210				0.1	5.43	0.2	5.58	0.4	5.82	0.6	6.14	0.8	6.53	1.1	6.98	1.3	7.47	1.6	8.01
	215				0.1	5.43	0.2	5.58	0.3	5.82	0.5	6.14	0.7	6.53	0.9	6.98	1.2	7.47	1.4	8.01
	220				0.0	5.43	0.1	5.58	0.3	5.82	0.4	6.14	0.6	6.53	0.8	6.98	1.1	7.47	1.3	8.01
	225				0.0	5.43	0.1	5.58	0.2	5.82	0.3	6.14	0.5	6.53	0.7	6.98	0.9	7.47	1.1	8.01
	230				0.0	5.43	0.1	5.58	0.1	5.82	0.3	6.14	0.4	6.53	0.6	6.98	0.8	7.48	1.0	8.01
	235				0.0	5.43	0.0	5.58	0.1	5.82	0.2	6.14	0.3	6.53	0.5	6.98	0.6	7.48	0.8	8.01
	240				0.0	5.43	0.0	5.58	0.0	5.82	0.1	6.14	0.2	6.53	0.4	6.98	0.5	7.48	0.7	8.01
	245				-0.1	5.43	-0.1	5.58	0.0	5.82	0.0	6.14	0.1	6.53	0.2	6.98	0.4	7.48	0.5	8.01
8	180						0.2	5.43	0.5	5.58	0.9	5.82	1.2	6.14	1.6	6.53	2.0	6.98	2.3	7.48
	185						0.2	5.43	0.5	5.58	0.8	5.82	1.1	6.14	1.5	6.53	1.8	6.98	2.2	7.48
	190						0.2	5.43	0.5	5.58	0.7	5.82	1.0	6.14	1.4	6.53	1.7	6.98	2.1	7.48
	195						0.2	5.43	0.4	5.58	0.7	5.82	1.0	6.14	1.3	6.53	1.6	6.98	1.9	7.48
	200						0.2	5.43	0.4	5.58	0.6	5.82	0.9	6.14	1.2	6.53	1.5	6.98	1.8	7.47
	205						0.2	5.43	0.3	5.58	0.6	5.82	0.8	6.14	1.1	6.53	1.4	6.98	1.7	7.47
	210						0.1	5.43	0.3	5.58	0.5	5.82	0.7	6.14	1.0	6.53	1.3	6.98	1.5	7.47
	215						0.1	5.43	0.3	5.58	0.4	5.82	0.7	6.14	0.9	6.53	1.1	6.98	1.4	7.47
	220						0.1	5.43	0.2	5.58	0.4	5.82	0.6	6.14	0.8	6.53	1.0	6.98	1.2	7.47
	225						0.1	5.43	0.2	5.58	0.3	5.82	0.5	6.14	0.7	6.53	0.9	6.98	1.1	7.47
	230						0.1	5.43	0.1	5.58	0.3	5.82	0.4	6.14	0.6	6.53	0.8	6.98	1.0	7.48
	235						0.0	5.43	0.1	5.58	0.2	5.82	0.3	6.14	0.5	6.53	0.7	6.98	0.8	7.48
240						0.0	5.43	0.1	5.58	0.2	5.82	0.3	6.14	0.4	6.53	0.6	6.98	0.7	7.48	
245						0.0	5.43	0.0	5.58	0.1	5.82	0.2	6.14	0.3	6.53	0.4	6.98	0.6	7.48	
12	180								0.3	5.43	0.6	5.58	1.0	5.82	1.3	6.14	1.7	6.53	2.1	6.98
	185								0.3	5.43	0.6	5.58	0.9	5.82	1.3	6.14	1.6	6.53	2.0	6.98
	190								0.3	5.43	0.5	5.58	0.8	5.82	1.2	6.14	1.5	6.53	1.9	6.98
	195								0.2	5.43	0.5	5.58	0.8	5.82	1.1	6.14	1.4	6.53	1.7	6.98
	200								0.2	5.43	0.5	5.58	0.7	5.82	1.0	6.14	1.3	6.53	1.6	6.98
	205								0.2	5.43	0.4	5.58	0.7	5.82	0.9	6.14	1.2	6.53	1.5	6.98
	210								0.2	5.43	0.4	5.58	0.6	5.82	0.9	6.14	1.1	6.53	1.4	6.98
	215								0.2	5.43	0.3	5.58	0.6	5.82	0.8	6.14	1.0	6.53	1.3	6.98
220								0.1	5.43	0.3	5.58	0.5	5.82	0.7	6.14	0.9	6.53	1.2	6.98	

Table C.44. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																		
		Prior Grd		Focal Grade																
		36		4	8	12	16	20	24	28	32	36								
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	225						0.1	5.43	0.3	5.58	0.4	5.82	0.6	6.14	0.8	6.53	1.0	6.98		
	230						0.1	5.43	0.2	5.58	0.4	5.82	0.6	6.14	0.7	6.53	0.9	6.98		
	235						0.1	5.43	0.2	5.58	0.3	5.82	0.5	6.14	0.6	6.53	0.8	6.98		
	240						0.1	5.43	0.1	5.58	0.3	5.82	0.4	6.14	0.5	6.53	0.7	6.98		
	245						0.0	5.43	0.1	5.58	0.2	5.82	0.3	6.14	0.4	6.53	0.6	6.98		
	250						0.0	5.43	0.1	5.58	0.1	5.82	0.2	6.14	0.3	6.53	0.5	6.98		
16	180								0.3	5.43	0.7	5.58	1.0	5.82	1.4	6.14	1.8	6.53		
	185								0.3	5.43	0.6	5.58	1.0	5.82	1.3	6.14	1.7	6.53		
	190								0.3	5.43	0.6	5.58	0.9	5.82	1.3	6.14	1.6	6.53		
	195								0.3	5.43	0.6	5.58	0.9	5.82	1.2	6.14	1.5	6.53		
	200								0.2	5.43	0.5	5.58	0.8	5.82	1.1	6.14	1.4	6.53		
	205								0.2	5.43	0.5	5.58	0.8	5.82	1.0	6.14	1.3	6.53		
	210								0.2	5.43	0.4	5.58	0.7	5.82	1.0	6.14	1.2	6.53		
	215								0.2	5.43	0.4	5.58	0.6	5.82	0.9	6.14	1.1	6.53		
	220								0.2	5.43	0.4	5.58	0.6	5.82	0.8	6.14	1.0	6.53		
	225								0.2	5.43	0.3	5.58	0.5	5.82	0.7	6.14	0.9	6.53		
	230								0.1	5.43	0.3	5.58	0.5	5.82	0.6	6.14	0.8	6.53		
	235								0.1	5.43	0.2	5.58	0.4	5.82	0.6	6.14	0.7	6.53		
	240								0.1	5.43	0.2	5.58	0.3	5.82	0.5	6.14	0.6	6.53		
	245								0.1	5.43	0.2	5.58	0.3	5.82	0.4	6.14	0.5	6.53		
250								0.1	5.43	0.1	5.58	0.2	5.82	0.3	6.14	0.4	6.53			
20	180										0.4	5.43	0.7	5.58	1.1	5.82	1.5	6.14		
	185										0.3	5.43	0.7	5.58	1.0	5.82	1.4	6.14		
	190										0.3	5.43	0.6	5.58	1.0	5.82	1.3	6.14		
	195										0.3	5.43	0.6	5.58	0.9	5.82	1.2	6.14		
	200										0.3	5.43	0.6	5.58	0.9	5.82	1.2	6.14		
	205										0.3	5.43	0.5	5.58	0.8	5.82	1.1	6.14		
	210										0.2	5.43	0.5	5.58	0.8	5.82	1.0	6.14		
	215										0.2	5.43	0.4	5.58	0.7	5.82	0.9	6.14		
	220										0.2	5.43	0.4	5.58	0.6	5.82	0.9	6.14		
	225										0.2	5.43	0.4	5.58	0.6	5.82	0.8	6.14		
	230										0.2	5.43	0.3	5.58	0.5	5.82	0.7	6.14		
	235										0.1	5.43	0.3	5.58	0.5	5.82	0.6	6.14		
	240										0.1	5.43	0.3	5.58	0.4	5.82	0.5	6.14		

Table C.44. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 9

Start Inst. Wk	Start RIT	Ending Instructional Weeks																					
		Prior Grd		Focal Grade																			
		36		4		8		12		16		20		24		28		32		36			
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
245												0.1	5.43	0.2	5.58	0.3	5.82	0.5	6.14				
250												0.1	5.43	0.2	5.58	0.3	5.82	0.4	6.14				

Table C.45. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																			
		Prior Grd		Focal Grade																	
		36	4	8	12	16	20	24	28	32	36										
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd		
32 (Gd 9)	180	0.3	5.43	0.7	5.60	1.0	5.87	1.4	6.23	1.7	6.67	2.1	7.16	2.4	7.70	2.6	8.29	2.8	8.90	3.0	9.54
	185	0.3	5.43	0.6	5.60	1.0	5.87	1.3	6.23	1.6	6.67	1.9	7.16	2.2	7.70	2.4	8.29	2.6	8.90	2.8	9.54
	190	0.3	5.43	0.6	5.60	0.9	5.87	1.2	6.23	1.5	6.67	1.7	7.16	2.0	7.70	2.2	8.29	2.3	8.90	2.5	9.54
	195	0.3	5.43	0.5	5.60	0.8	5.87	1.1	6.23	1.3	6.67	1.5	7.16	1.8	7.70	1.9	8.29	2.1	8.90	2.2	9.54
	200	0.2	5.43	0.5	5.60	0.7	5.87	0.9	6.23	1.2	6.66	1.4	7.16	1.6	7.70	1.7	8.29	1.8	8.90	1.9	9.54
	205	0.2	5.43	0.4	5.60	0.6	5.87	0.8	6.23	1.0	6.66	1.2	7.16	1.4	7.70	1.5	8.29	1.6	8.90	1.6	9.54
	210	0.2	5.43	0.4	5.60	0.5	5.87	0.7	6.23	0.9	6.66	1.0	7.16	1.2	7.70	1.3	8.29	1.3	8.90	1.4	9.54
	215	0.1	5.43	0.3	5.60	0.5	5.87	0.6	6.23	0.8	6.66	0.9	7.16	1.0	7.70	1.0	8.29	1.1	8.90	1.1	9.54
	220	0.1	5.43	0.2	5.60	0.4	5.87	0.5	6.23	0.6	6.66	0.7	7.16	0.8	7.70	0.8	8.29	0.8	8.90	0.8	9.54
	225	0.1	5.43	0.2	5.60	0.3	5.87	0.4	6.23	0.5	6.66	0.5	7.16	0.6	7.70	0.6	8.29	0.6	8.90	0.5	9.54
	230	0.1	5.43	0.1	5.60	0.2	5.87	0.3	6.23	0.3	6.66	0.4	7.16	0.4	7.70	0.4	8.29	0.3	8.90	0.2	9.54
	235	0.0	5.43	0.1	5.60	0.1	5.87	0.2	6.23	0.2	6.67	0.2	7.16	0.2	7.70	0.2	8.29	0.1	8.90	-0.1	9.54
	240	0.0	5.43	0.0	5.60	0.0	5.87	0.0	6.23	0.1	6.67	0.0	7.16	0.0	7.70	-0.1	8.29	-0.2	8.90	-0.3	9.54
245	0.0	5.43	0.0	5.60	-0.1	5.87	-0.1	6.23	-0.1	6.67	-0.1	7.16	-0.2	7.70	-0.3	8.29	-0.4	8.90	-0.6	9.54	
36 (Gd 9)	180			0.4	5.43	0.7	5.60	1.1	5.87	1.4	6.23	1.7	6.67	2.0	7.16	2.3	7.70	2.5	8.29	2.7	8.90
	185			0.3	5.43	0.7	5.60	1.0	5.87	1.3	6.23	1.6	6.67	1.8	7.16	2.1	7.70	2.3	8.29	2.4	8.90
	190			0.3	5.43	0.6	5.60	0.9	5.87	1.2	6.23	1.4	6.67	1.7	7.16	1.9	7.70	2.1	8.29	2.2	8.90
	195			0.3	5.43	0.5	5.60	0.8	5.87	1.1	6.23	1.3	6.67	1.5	7.16	1.7	7.70	1.8	8.29	1.9	8.90
	200			0.2	5.43	0.5	5.60	0.7	5.87	0.9	6.23	1.2	6.66	1.3	7.16	1.5	7.70	1.6	8.29	1.7	8.90
	205			0.2	5.43	0.4	5.60	0.6	5.87	0.8	6.23	1.0	6.66	1.2	7.16	1.3	7.70	1.4	8.29	1.4	8.90
	210			0.2	5.43	0.4	5.60	0.6	5.87	0.7	6.23	0.9	6.66	1.0	7.16	1.1	7.70	1.2	8.29	1.2	8.90
	215			0.2	5.43	0.3	5.60	0.5	5.87	0.6	6.23	0.7	6.66	0.8	7.16	0.9	7.70	0.9	8.29	0.9	8.90
	220			0.1	5.43	0.3	5.60	0.4	5.87	0.5	6.23	0.6	6.66	0.7	7.16	0.7	7.70	0.7	8.29	0.7	8.90
	225			0.1	5.43	0.2	5.60	0.3	5.87	0.4	6.23	0.5	6.66	0.5	7.16	0.5	7.70	0.5	8.29	0.4	8.90
	230			0.1	5.43	0.1	5.60	0.2	5.87	0.3	6.23	0.3	6.66	0.3	7.16	0.3	7.70	0.3	8.29	0.2	8.90
	235			0.0	5.43	0.1	5.60	0.1	5.87	0.2	6.23	0.2	6.67	0.2	7.16	0.1	7.70	0.0	8.29	-0.1	8.90
	240			0.0	5.43	0.0	5.60	0.0	5.87	0.0	6.23	0.0	6.67	0.0	7.16	-0.1	7.70	-0.2	8.29	-0.3	8.90
245			0.0	5.43	0.0	5.60	0.0	5.87	-0.1	6.23	-0.1	6.67	-0.2	7.16	-0.3	7.70	-0.4	8.29	-0.6	8.90	
4	180					0.4	5.43	0.7	5.60	1.0	5.87	1.4	6.23	1.7	6.67	1.9	7.16	2.2	7.70	2.3	8.29
	185					0.3	5.43	0.6	5.60	1.0	5.87	1.3	6.23	1.5	6.67	1.8	7.16	2.0	7.70	2.1	8.29
	190					0.3	5.43	0.6	5.60	0.9	5.87	1.1	6.23	1.4	6.67	1.6	7.16	1.8	7.70	1.9	8.29
	195					0.3	5.43	0.5	5.60	0.8	5.87	1.0	6.23	1.2	6.66	1.4	7.16	1.6	7.70	1.7	8.29

Table C.45. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																	
		Prior Grd		Focal Grade															
		36	4	8	12	16	20	24	28	32	36								
		M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd
	200			0.2	5.43	0.5	5.60	0.7	5.87	0.9	6.23	1.1	6.66	1.3	7.16	1.4	7.70	1.4	8.29
	205			0.2	5.43	0.4	5.60	0.6	5.87	0.8	6.23	1.0	6.66	1.1	7.16	1.2	7.70	1.2	8.29
	210			0.2	5.43	0.4	5.60	0.5	5.87	0.7	6.23	0.8	6.66	0.9	7.16	1.0	7.70	1.0	8.29
	215			0.2	5.43	0.3	5.60	0.5	5.87	0.6	6.23	0.7	6.66	0.8	7.16	0.8	7.70	0.8	8.29
	220			0.1	5.43	0.3	5.60	0.4	5.87	0.5	6.23	0.5	6.66	0.6	7.16	0.6	7.70	0.6	8.29
	225			0.1	5.43	0.2	5.60	0.3	5.87	0.4	6.23	0.4	6.66	0.4	7.16	0.4	7.70	0.3	8.29
	230			0.1	5.43	0.1	5.60	0.2	5.87	0.2	6.23	0.3	6.66	0.2	7.16	0.2	7.70	0.1	8.29
	235			0.0	5.43	0.1	5.60	0.1	5.87	0.1	6.23	0.1	6.67	0.1	7.16	0.0	7.70	-0.1	8.29
	240			0.0	5.43	0.0	5.60	0.0	5.87	0.0	6.23	0.0	6.67	-0.1	7.16	-0.2	7.70	-0.4	8.29
	245			0.0	5.43	0.0	5.60	-0.1	5.87	-0.1	6.23	-0.2	6.67	-0.3	7.16	-0.4	7.70	-0.6	8.29
8	180					0.4	5.43	0.7	5.60	1.0	5.87	1.3	6.23	1.6	6.67	1.8	7.16	2.0	7.70
	185					0.3	5.43	0.6	5.60	0.9	5.87	1.2	6.23	1.4	6.67	1.6	7.16	1.8	7.70
	190					0.3	5.43	0.6	5.60	0.8	5.87	1.1	6.23	1.3	6.67	1.5	7.16	1.6	7.70
	195					0.3	5.43	0.5	5.60	0.8	5.87	1.0	6.23	1.2	6.66	1.3	7.16	1.4	7.70
	200					0.2	5.43	0.5	5.60	0.7	5.87	0.9	6.23	1.0	6.66	1.1	7.16	1.2	7.70
	205					0.2	5.43	0.4	5.60	0.6	5.87	0.8	6.23	0.9	6.66	1.0	7.16	1.0	7.70
	210					0.2	5.43	0.4	5.60	0.5	5.87	0.6	6.23	0.7	6.66	0.8	7.16	0.8	7.70
	215					0.2	5.43	0.3	5.60	0.4	5.87	0.5	6.23	0.6	6.66	0.6	7.16	0.6	7.70
	220					0.1	5.43	0.2	5.60	0.3	5.87	0.4	6.23	0.5	6.66	0.5	7.16	0.4	7.70
	225					0.1	5.43	0.2	5.60	0.3	5.87	0.3	6.23	0.3	6.66	0.3	7.16	0.2	7.70
	230					0.1	5.43	0.1	5.60	0.2	5.87	0.2	6.23	0.2	6.66	0.1	7.16	0.0	7.70
	235					0.0	5.43	0.1	5.60	0.1	5.87	0.1	6.23	0.0	6.67	-0.1	7.16	-0.2	7.70
	240					0.0	5.43	0.0	5.60	0.0	5.87	0.0	6.23	-0.1	6.67	-0.2	7.16	-0.4	7.70
245					0.0	5.43	0.0	5.60	-0.1	5.87	-0.2	6.23	-0.3	6.67	-0.4	7.16	-0.6	7.70	
12	180							0.3	5.43	0.7	5.60	1.0	5.87	1.2	6.23	1.5	6.67	1.6	7.16
	185							0.3	5.43	0.6	5.60	0.9	5.87	1.1	6.23	1.3	6.67	1.5	7.16
	190							0.3	5.43	0.6	5.60	0.8	5.87	1.0	6.23	1.2	6.67	1.3	7.16
	195							0.3	5.43	0.5	5.60	0.7	5.87	0.9	6.23	1.0	6.66	1.1	7.16
	200							0.2	5.43	0.4	5.60	0.6	5.87	0.8	6.23	0.9	6.66	1.0	7.16
	205							0.2	5.43	0.4	5.60	0.5	5.87	0.7	6.23	0.8	6.66	0.8	7.16
	210							0.2	5.43	0.3	5.60	0.5	5.87	0.6	6.23	0.6	6.66	0.6	7.16
	215							0.1	5.43	0.3	5.60	0.4	5.87	0.4	6.23	0.5	6.66	0.5	7.16
	220							0.1	5.43	0.2	5.60	0.3	5.87	0.3	6.23	0.3	6.66	0.3	7.16
	225							0.1	5.43	0.2	5.60	0.2	5.87	0.2	6.23	0.2	6.66	0.1	7.16

Table C.45. Means (M) and Standard Deviations (sd) of Academic Growth by Starting RIT Score and Starting Instructional Week for Various Ending Instructional Weeks - SCIENCE CONCEPTS & PROCESSES, GRADE 10

Start Inst. Wk	Start RIT	Ending Instructional Weeks																
		Prior Grd		Focal Grade														
		36		4	8	12	16	20	24	28	32	36						
M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	M	sd	
	230						0.1	5.43	0.1	5.60	0.1	5.87	0.1	6.23	0.1	6.66	0.0	7.16
	235						0.0	5.43	0.0	5.60	0.0	5.87	0.0	6.23	-0.1	6.67	-0.2	7.16
	240						0.0	5.43	0.0	5.60	-0.1	5.87	-0.1	6.23	-0.2	6.67	-0.4	7.16
	245						0.0	5.43	-0.1	5.60	-0.1	5.87	-0.2	6.23	-0.4	6.67	-0.6	7.16
16	180								0.3	5.43	0.6	5.60	0.9	5.87	1.1	6.23	1.3	6.67
	185								0.3	5.43	0.6	5.60	0.8	5.87	1.0	6.23	1.2	6.67
	190								0.3	5.43	0.5	5.60	0.7	5.87	0.9	6.23	1.0	6.67
	195								0.2	5.43	0.5	5.60	0.6	5.87	0.8	6.23	0.9	6.67
	200								0.2	5.43	0.4	5.60	0.6	5.87	0.7	6.23	0.7	6.66
	205								0.2	5.43	0.3	5.60	0.5	5.87	0.6	6.23	0.6	6.66
	210								0.2	5.43	0.3	5.60	0.4	5.87	0.4	6.23	0.5	6.66
	215								0.1	5.43	0.2	5.60	0.3	5.87	0.3	6.23	0.3	6.66
	220								0.1	5.43	0.2	5.60	0.2	5.87	0.2	6.23	0.2	6.66
	225								0.1	5.43	0.1	5.60	0.1	5.87	0.1	6.23	0.0	6.66
	230								0.0	5.43	0.1	5.60	0.1	5.87	0.0	6.23	-0.1	6.66
	235								0.0	5.43	0.0	5.60	0.0	5.87	-0.1	6.23	-0.2	6.67
	240								0.0	5.43	-0.1	5.60	-0.1	5.87	-0.2	6.23	-0.4	6.67
	245								0.0	5.43	-0.1	5.60	-0.2	5.87	-0.3	6.23	-0.5	6.67
20	180										0.3	5.43	0.6	5.60	0.8	5.87	1.0	6.23
	185										0.3	5.43	0.5	5.60	0.7	5.87	0.9	6.23
	190										0.2	5.43	0.5	5.60	0.6	5.87	0.8	6.23
	195										0.2	5.43	0.4	5.60	0.5	5.87	0.6	6.23
	200										0.2	5.43	0.3	5.60	0.5	5.87	0.5	6.23
	205										0.2	5.43	0.3	5.60	0.4	5.87	0.4	6.23
	210										0.1	5.43	0.2	5.60	0.3	5.87	0.3	6.23
	215										0.1	5.43	0.2	5.60	0.2	5.87	0.2	6.23
	220										0.1	5.43	0.1	5.60	0.1	5.87	0.1	6.23
	225										0.1	5.43	0.1	5.60	0.0	5.87	0.0	6.23
	230										0.0	5.43	0.0	5.60	-0.1	5.87	-0.1	6.23
	235										0.0	5.43	-0.1	5.60	-0.1	5.87	-0.3	6.23
	240										0.0	5.43	-0.1	5.60	-0.2	5.87	-0.4	6.23
	245										-0.1	5.43	-0.2	5.60	-0.3	5.87	-0.5	6.23

Appendix D - Technical Details of Obtaining Status and Conditional Growth Norms Using a Multi-level Growth Model

A Polynomial Growth Model

Suppose that student i took a test on week W_{it} after instruction began in the grade prior to his focal grade level. Further suppose we wish to benchmark performance at week W_0 . To bring in the information about instructional and testing schedules, we propose using the polynomial equation

$$\text{Level 1: } y_{it} = b_{0i} + b_{1i} \times (W_{it} - W_0) + b_{2i} \times (W_{it} - W_0)^2 + b_{3i} \times (W_{it} - W_0)^3 + e_{it} \quad (1)$$

to describe scores of student i as a function of instructional time. Initial explorations of the model suggested that the residuals $[e_{i1}, e_{i2}, \dots]$ are uncorrelated over time. In this equation, \hat{b}_{0i} is the estimated performance status after W_0 weeks of instruction and $[\hat{b}_{1i}, \hat{b}_{2i}, \hat{b}_{3i}]$ are the linear, quadratic, and cubic terms in the polynomial growth model. If the polynomial takes a non-linear form, the growth rate is not a constant that is independent of time but is now contingent on when the observation is made. The student's instantaneous growth rate may be estimated as

$$\hat{b}_{1i} \times (W_{it} - W_0) + \hat{b}_{2i} \times (W_{it} - W_0)^2 + \hat{b}_{3i} \times (W_{it} - W_0)^3.$$

If we believe that students learn at different rates, we may extend the above model to allow student growth coefficients $[\hat{b}_{0i}, \hat{b}_{1i}, \hat{b}_{2i}, \hat{b}_{3i}]$ to vary in the population, as in

$$\text{Level 2: } b_{0i} = \gamma_{00} + u_{0i}, b_{1i} = \gamma_{10} + u_{1i}, b_{2i} = \gamma_{20} + u_{2i}, \text{ and } b_{3i} = \gamma_{30} + u_{3i}. \quad (2)$$

We have employed a model for which $\text{Var}(u_{2i}) = \text{Var}(u_{3i}) = 0$ instead, because we have found little evidence that the quadratic and cubic components in the polynomial vary across students during the span of the "growth window" considered. Thus, the Level 2 model employed in the study is

$$b_{0i} = \gamma_{00} + u_{0i}, b_{1i} = \gamma_{10} + u_{1i}, b_{2i} = \gamma_{20}, \text{ and } b_{3i} = \gamma_{30} \quad (3)$$

instead. The random effects $[u_{0i}, u_{1i}]$ are assumed to be distributed bi-variate normal with means $[0, 0]$

and variance-covariance matrix $\mathbf{T} = \begin{bmatrix} \tau_{00} & \tau_{01} \\ \tau_{10} & \tau_{11} \end{bmatrix}$. Under this model, student growth rate continues to vary

with time, but differences in shape between growth trajectories will be more muted. The functional form of

the above model appears to describe achievement scores over instructional days well, and showed only minor to moderate variations in parameter estimates, across grade levels and subject matter. See Huttenlocher, Haight, Bryk, Seltzer, & Lyons (1991) for a simple application of a multi-level growth curve for describing child vocabulary development. A more complete treatment is found in Raudenbush and Bryk (2002, Chapter 4).

Using Observed Scores as Outcomes

NWEA's MAP test scores, like those provided by many other testing programs, are reported along with estimates of their standard errors of measurement (SEMs). SEMs provide users with some indication of score reliability. SEMs are important to the interpretation of observed performance because the observed test score is an estimate of an student's "true" score, a fact that is commonly ignored when test scores are evaluated. Consequences of this practice may be substantial. For example, a simple comparison, such as whether an observed test score exceeds a passing score (as represented by cut-score on the same scale) has strong support when the observed score is more than 2 SEMs higher than the cut-score. Concluding that the student exceeds the criterion just because his observed score is greater than the cut-score is hard to defend because the decision ignores the information provided by the SEM of the score. Note that an observed score that is at the cut-score represents passing at no better than chance level; i.e., only 50% of the scores the student received under repeated testing can be expected to meet or exceed the passing score.

In more complex analyses, such as estimating the average score for students in a classroom, the result of treating the observed score as the true score itself is that errors of measurement are ignored and inferences are then based only on sampling error. The problem is compounded when scores entering into an aggregate are estimated with different levels of precision. Depending on the relative magnitudes of measurement errors and their joint distribution with observed scores, such misspecification in the error structure of the model may result in biased estimates and poor estimates of precision (Thum & Xiang, 2010, Appendix A).

To address this issue, the following adjustment to Equation (1) presents a solution. If the model describes changes well enough in that only measurement error remains, then it is plausible to assume that the square of the SEM, s_{it}^2 , for an observed score y_{it} is a good estimate of the residual variance $Var(e_{it})$.

This suggests that we weigh Equation (1) for the observed scores in the growth model by their individual levels of precision. Specifically, Equation (1) is re-scaled by $1/s_{it}$, resulting in

$$\frac{y_{it}}{s_{it}} = \left(\frac{1}{s_{it}} \right) b_{0i} + b_{1i} \frac{(W_{it} - W_0)}{s_{it}} + b_{2i} \frac{(W_{it} - W_0)^2}{s_{it}} + b_{3i} \frac{(W_{it} - W_0)^3}{s_{it}} + \frac{e_{it}}{s_{it}}, \quad (4)$$

where $\text{Var}(e_{it})/s_{it}^2 = 1.0$. The re-scaling does not affect other components of the model as given by Equation (3). However, estimation would require the ability to constrain the residual error variance in the multilevel model to a fixed value.

Estimation

Grilli and Pratesi (2004, Appendix A) advised that student-level (our level 2) population weights obtained from our post-stratification analysis may be effected using the REPLICATE statement of PROC NL MIXED. Because that REPLICATE statement accepts only positive integer values, weights are first scaled by a sufficiently large positive multiplier k . This “trick” relies on the fact that multiplying the level 2 weights by a constant does not affect point estimates, only their sampling variance-covariance matrix (and so their standard errors). The correct sampling variance-covariance matrix may be easily recovered, however, by multiplying it by the constant k .

Achievement Norms

Combining the Level 1 and 2 models, given by Equations (4) and (3) above, results in the SEM-scaled mixed-effects equation

$$\frac{y_{it}}{s_{it}} = \left(\frac{1}{s_{it}} \right) (\gamma_{00} + u_{0i}) + (\gamma_{10} + u_{1i}) \frac{(W_{it} - W_0)}{s_{it}} + \gamma_{20} \frac{(W_{it} - W_0)^2}{s_{it}} + \gamma_{30} \frac{(W_{it} - W_0)^3}{s_{it}} + \frac{e_{it}}{s_{it}}, \quad (5)$$

from which the predicted mean status at instructional week W_{it} may be given as

$$E(y_{it} | W_{it}) = \hat{\gamma}_{00} + \hat{\gamma}_{10} \times (W_{it} - W_0) + \hat{\gamma}_{20} \times (W_{it} - W_0)^2 + \hat{\gamma}_{30} \times (W_{it} - W_0)^3 \quad (6)$$

with sampling variance of the predicted score,

$$\text{Var}[E(y_{it} | W_{it})] = [1 \quad W_{it}^* \quad W_{it}^{*2} \quad W_{it}^{*3}] \text{Var}(\hat{\gamma}) [1 \quad W_{it}^* \quad W_{it}^{*2} \quad W_{it}^{*3}]', \quad (7)$$

after re-writing $W_{it} - W_0 = W_{it}^*$. $\text{Var}(\hat{\gamma})$ is the sampling variance-covariance matrix of the fixed-effects estimates $[\hat{\gamma}_{00}, \hat{\gamma}_{10}, \hat{\gamma}_{20}, \hat{\gamma}_{30}]$. The sampling variance of the predicted score can be made arbitrarily small, as it is a function of sample size. The predicted variance of an observed score at W_{it} is much larger, however,

$$\text{Var}(y_{it} | W_{it}) = \text{Var}[E(y_{it} | W_{it})] + [1 \quad W_{it}^*] \hat{\mathbf{T}} [1 \quad W_{it}^*]' + s_{it}^2 \quad (8)$$

as it takes into account both its conditional sampling variance about the mean as well as its (known) measurement error variance s_{it}^2 .

As it is clear from Equation (8) above, the results for the predicted variance of an observed score at W_{it} depended not only on W_{it} but also on its SEM, s_{it} . We denote the predicted standard deviation of a student's observed score, the square-root of its predicted variance, as

$$SD(y_{it} | W_{it}) = \sqrt{\text{Var}(y_{it} | W_{it})}. \quad (9)$$

The predicted percentile for a student's observed score and SEM (y_{it}, s_{it}) may then be computed from the normal cumulative distribution function $\Phi(d_{it})$, where

$$d_{it} = \frac{y_{it} - E(y_{it} | W_{it})}{SD(y_{it} | W_{it})}. \quad (10)$$

As compared with norm reports in the past, the present approach provides the relevant information for a student's observed performance characterized not only by his observed score y_{it} at W_{it} but also by the known standard error of measurement, s_{it} . As a consequence, it is somewhat unwieldy to convey the clearly richer information from this approach by tabulations alone. A spreadsheet has been coded to estimate the true status of a student based on his observed performance, the SEM for the observed score, and the point in the instructional calendar at which testing occurred.

Conditional Growth Norms

Under the model, the achievement level from the first test b_{0i} and the linear term of the polynomial growth curve b_{1i} co-vary as

$$\begin{bmatrix} b_{0i} \\ b_{1i} \end{bmatrix} \square MVN \left(\begin{bmatrix} \gamma_{00} \\ \gamma_{10} \end{bmatrix}, \begin{bmatrix} \tau_{00} & \tau_{01} \\ \tau_{10} & \tau_{11} \end{bmatrix} \right).$$

A description of "true" growth in relation to "true" initial status, both being latent variables in the model, may be expressed as a *latent variable regression* (LVR) model

$$b_{1i}^* = a_{10} + a_{11} \times (b_{0i}^* - \gamma_{00}) + u_{1i}^*, \quad (11)$$

where it is easily shown that $b_{1i}^* = \gamma_{10} + \frac{\tau_{10}}{\tau_{00}}(b_{0i}^* - \gamma_{00})$ and $\text{Var}(b_{1i}^*) = \tau_{11}^* = \tau_{11} - \frac{\tau_{10}^2}{\tau_{00}}$. From the above

equations, we deduce that $a_{10} = \gamma_{10}$ and $a_{11} = \tau_{10} / \tau_{00}$. Note further that the residual error u_{1i}^* in the LVR model measures that portion of the linear term not predicted from knowing the student's true status at Week 30. u_{1i}^* is distributed $N(0, \tau_{11}^*)$, and the covariance between u_{0i} and u_{1i}^* is now 0. See Raudenbush and Bryk (2002, Chapter 11) for a more complete treatment. More complex LVR investigations between initial status and growth rates are found in Thum (2002) and Seltzer, Choi, and Thum (2003).

The approach employed here supports inferences about a student's expected "true" learning growth between any two points on the instructional calendar based on a rather conventional multilevel description of changes in achievement over time. Furthermore, the description would also take into account the initial performance status, as well as the standard errors of measurement accompanying the observed scores. We begin by noting that the learning gain as measured between the initial time point, W_{it} , on the instructional calendar by the status performance (y_{it}, s_{it}) and the follow-up time point, $W_{i,t+1}$, on the instructional calendar by the second status measurement $(y_{i,t+1}, s_{i,t+1})$ has expectation given by

$$\begin{aligned} E(y_{i,t+1} - y_{it} | b_{0i}^\circ, W_{it}, W_{i,t+1}) &= [\hat{a}_{10} + \hat{a}_{11} \times (b_{0i}^\circ - \hat{\gamma}_{00})] \times (W_{i,t+1}^* - W_{it}^*) \\ &+ \hat{\gamma}_{20} \times (W_{i,t+1}^{*2} - W_{it}^{*2}) + \hat{\gamma}_{30} \times (W_{i,t+1}^{*3} - W_{it}^{*3}), \end{aligned} \quad (12)$$

with sampling variance for the predicted gain given by

$$\text{Var}\left[E(y_{i,t+1} - y_{it} | b_{0i}^\circ, W_{it}, W_{i,t+1})\right] = \mathbf{z}_i \text{Var}(\hat{a}_{10}, \hat{a}_{11}, \hat{\gamma}_{20}, \hat{\gamma}_{30}) \mathbf{z}_i', \quad (13)$$

where $\mathbf{z}_i = \left[W_{i,t+1}^* - W_{it}^* \quad (b_{0i}^\circ - \hat{\gamma}_{00}) \times (W_{i,t+1}^* - W_{it}^*) \quad W_{i,t+1}^{*2} - W_{it}^{*2} \quad W_{i,t+1}^{*3} - W_{it}^{*3} \right]$. Finally, the predicted variance of an observed gain, $\text{Var}(y_{i,t+1} - y_{it} | W_{it}, W_{i,t+1})$, is given by

$$\text{Var}\left[E(y_{i,t+1} - y_{it} | b_{0i}^\circ, W_{it}, W_{i,t+1})\right] + (W_{i,t+1}^* - W_{it}^*)^2 \times \hat{\tau}_{11}^* + (s_{it}^2 + s_{i,t+1}^2). \quad (14)$$

Just as for achievement status norms, we may now define the *conditional growth norms* for a student who scored (y_{it}, s_{it}) at the initial time point W_{it} and $(y_{i,t+1}, s_{i,t+1})$ at a later time $W_{i,t+1}$. Setting y_{it} as your best estimate of the student's "true" score from the first evaluation, i.e., assuming that $b_{0i}^\circ = y_{it}$, we obtain an estimate of the predicted conditional growth standard deviation, given by

$$\text{SD}(y_{i,t+1} - y_{it} | y_{it}, W_{it}, W_{i,t+1}) = \sqrt{\text{Var}(y_{i,t+1} - y_{it} | y_{it}, W_{it}, W_{i,t+1})}, \quad (15)$$

and the *conditional growth percentile* for the student is obtained from the normal cumulative distribution function $\Phi(g_{it})$, where

$$g_{it} = \frac{(y_{i,t+1} - y_{it}) - E(y_{i,t+1} - y_{it} | y_{it}, W_{it}, W_{i,t+1})}{\text{SD}(y_{i,t+1} - y_{it} | y_{it}, W_{it}, W_{i,t+1})} \quad (16)$$

is the *conditional growth index* (CGI), measuring the normative gain made by a typical student with pre-test information as characterized by $[y_{it}, s_{it}, W_{it}]$ and post-test information as characterized by $[y_{i,t+1}, s_{i,t+1}, W_{i,t+1}]$. g_{it} is also the *point-growth effect-size* in Thum & Bowe (2009) and in Thum & Xiang (2010).

Finally, note that the CGI is a relative measure of growth. It is similar in principle to the *conditional growth percentile* of the Colorado Growth Model (Betebenner, 2008), except that student achievement is assumed to be measured on an interval cross-grade scale rather than on an ordinal scale. Because short-term growth is the focus of the CGI, i.e., inferences are made only within a five-term wide instructional time span about a focal grade level, we are confident that vertical scale assumptions are appropriate under such circumstances (see Braun, 1988).