IXL LevelUp™ Diagnostic for Math Norming Technical Manual

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IXL LEARNING 777 Mariners Island Blvd., Suite 600, San Mateo, CA 94404
650-372-4040 | www.ixl.com

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Introduction

A score on any assessment provides information about students' performance. By itself, however, a score is meaningless without additional context and provides no actionable recourse. Norms are contextualizing resources that provide actionable recourse to assessment scores. They describe how students perform relative to a population of representative students at specific points during the academic year by indicating how far below or above the average student in the same grade is performing, typically using summary statistics like means, standard deviations, and percentile ranks. For example, a student may achieve the highest test score in her class on a given assessment but still fall below the national average of students at her grade level who have completed the same assessment (i.e., a percentile rank < 50). Educators can use this information to compare their students' scores to those of other students across the United States who completed the same assessment. Such comparisons can help educators target resources to maximize student learning and achievement.

It is important to consider the time of year when examining student performance and growth. The characteristics of the students in a sample should be sufficiently similar such that comparisons are meaningful. Reporting windows are set monthly relative to a school or district's first day of school. For example, if the first day of school is August 15 then the time period between August 15 and September 15 would be considered the first month. For a 10-month school year, beginning-of-year (BOY) is the first 4 months, middle-of-year (MOY) is months 5-7, and end-of-year (EOY) is months 8-10. Given that very few assessments are delivered in months 9 and 10, projections are only shown up to month 8.

The IXL LevelUp™ Diagnostic for Math provides teachers and students with an easily interpretable score that ranges from 0 to 1200 and is strongly tied to expected student performance on grade-level content. For example, a score of 400 indicates that a student is ready for content typically taught at the beginning of 4th grade, while a score of 450 means a student is ready for content targeting 4th-grade students during the middle of the year. These scores provide a quick and easy way for teachers to determine the appropriate instructional level for a student.

Despite these affordances, not all necessary information is present to understand how students of any ability will progress throughout the year. It may not be reasonable to expect students two grade levels behind their peers to reach the mean level of ability by the end of the year, but it would be helpful to know how much similar students typically grow within this time frame. Furthermore, educators need support in tailoring instruction for students and to know what to expect from those who perform two grade levels above their peers by the end of the year.

For example, consider a 5th grader who started the school year with a score of 260 and ended with a 460. Although this student is still further behind than most of his peers, his ability has increased by 200 points. Is this what is expected by students who scored similarly, or is it considerably lower

or higher? Consider another hypothetical example involving a 7th grader who outperformed most of her peers at the beginning of the year with a score of 860 and finished the school year still outperforming most of her peers with a score of 870. Although she performed well and is still ahead of her class, the question remains about whether that amount of growth is expected compared to other 7th graders who started with a similar score. Perhaps most other students with similar scores grew considerably more.

These questions likely arise for many teachers, parents, administrators, etc. One way to answer these is by using growth norms. Growth norms describe how much the students grow over time relative to their initial, baseline score. For the IXL LevelUp Diagnostic for Math, growth norms allow teachers to determine if their students are improving as expected and further tailor their instruction as needed.

Sampling

The target population for the IXL LevelUp Diagnostic for Math includes all students enrolled in kindergarten through grade 8 in public and private schools across the United States during the 2024-25 academic year, and all students enrolled in grades 9 through 12 during the 2025-26 academic year. The sample used to develop achievement norms comprised 698,030 students from 3,052 schools in 50 states, Guam, and Washington, D.C., who completed 1,356,997 tests, for a mean of 1.94 tests per student. For the growth norms, we included only students who completed at least one test during at least two windows (i.e., BOY, MOY, and EOY), resulting in a total of 263,962 students from 1,130 schools in 47 states and Guam who completed 681,438 tests, averaging 2.58 tests per student. For the predicted growth norms, we included only students who completed the assessment at least twice, regardless of window, resulting in a total of 271,630 students from 1,180 schools in 47 states and Guam who completed 735,680 tests, averaging 2.71 tests per student. School-demographic data come from the National Center for Education Statistics (NCES; https://nces.ed.gov/ccd). Table 1 below shows the degree to which the IXL sample is sufficiently representative of its target population.

Table 1. Demographic representation for the norming sample

Variable	National %	IXL %
Gender		
Female	48.7	48.6
Male	51.3	51.3
Race/ethnicity		
American Indian or Alaska Native	1.0	1.1
Asian	6.0	5.2
Black or African American	15.6	16.9
Hispanic or Latino	32.0	30.6
Native Hawaiian or Pacific Islander	0.4	0.3
White	45.4	46.2
Free or reduced-price lunch	52.3	50.5

Achievement Norms

This section reports the achievement norms for the IXL LevelUp Diagnostic for Math. Achievement norms provide context throughout the academic year about how students perform relative to a representative sample of their peers. Table 2 reports the number of students who completed the assessment, along with the mean and standard deviation of the grade scores by grade and time of year.

Table 2. Mean score by grade and window

	BOY			MOY			EOY		
Grade	***N***	**Mean**	**SD**	***N***	**Mean**	**SD**	***N***	**Mean**	**SD**
K	12,707	76.1	48.6	9,658	110.7	51.4	12,501	143.2	60.2
1	22,103	145.2	75.7	14,161	180.8	64.4	16,383	212.5	69.5
2	29,582	220.1	95.0	18,586	250.1	75.8	20,220	281.1	84.4
3	35,826	280.9	113.3	23,905	315.1	95.2	26,158	356.9	107.1
4	37,699	334.0	132.6	25,326	382.8	111.1	26,041	428.5	128.7
5	39,795	371.5	165.9	27,871	444.8	145.9	27,749	486.9	171.4
6	79,874	423.1	215.3	48,712	490.6	190.6	49,466	544.4	219.5
7	80,287	470.4	236.5	50,535	547.4	231.4	47,134	599.2	256.0
8	78,317	526.1	254.8	48,705	591.6	266.3	41,905	630.4	284.4
9	72,623	560.9	256.3	49,935	633.4	280.7	38,134	674.4	294.9
10	50,619	594.4	269.5	38,448	670.7	297.5	28,519	716.9	316.0
11	37,538	622.8	280.9	28,542	705.8	305.6	20,557	734.4	325.6
12	19,847	617.5	292.4	13,300	683.2	326.0	7,729	685.6	355.2

Although informative, a description of the distribution of student scores is not necessarily useful for considering a single student's performance. Therefore, more detailed tables showing achievement norms as percentiles are provided in Appendix A. These tables show the percentile ranks of each score for the beginning, middle, and end of the year by grade.

Growth Norms

This section reports the growth norms for the IXL LevelUp Diagnostic for Math. Growth norms provide information that describes the growth of a representative sample of students from an initial baseline performance to a later date. Table 3 reports the mean and standard deviation of growth in grade score by grade and time of year. These numbers indicate how much stakeholders can expect the average student to improve during the academic year, regardless of their baseline grade score.

Table 3. Growth norms descriptives by grade and window

	BOY to MOY		MOY to EOY		BOY to EOY	
Grade	Mean	SD	Mean	SD	Mean	SD
K	39.2	43.3	37.3	42.8	72.5	53.7
1	38.5	50.4	35.9	44.2	72.0	57.6
2	31.6	59.8	36.2	49.3	67.2	64.1
3	41.5	66.2	48.3	59.3	87.5	72.9
4	56.5	75.0	47.6	69.5	104.0	84.0
5	82.1	94.1	51.2	89.4	130.2	108.0
6	95.6	118.4	54.9	119.1	136.8	147.5
7	102.3	138.0	55.2	149.1	148.6	172.2
8	94.7	153.2	56.6	179.4	149.1	191.3
9	64.9	204.6	36.3	222.6	95.7	224.6
10	62.1	233.2	50.1	262.7	110.4	273.9
11	69.6	250.2	36.9	273.2	105.7	298.8
12	64.8	266.8	44.1	311.1	113.7	325.1

Predicted growth norms

This section discusses the development of the predicted growth norms. The first subsection describes the multilevel models we fitted to account for the inherently nested data (Raudenbush & Bryk, 2002). The second subsection documents the k-fold cross-validation analysis we conducted to investigate and compare the prediction accuracy of various multilevel models described in the previous subsection (Larson, 1931; Mosteller & Tukey, 1968; Stone, 1974). Appendix B presents the final predicted growth norms based on the best model selected from the cross-validation analysis.

Multilevel models

We examined the prediction accuracy of four multilevel models. All models shared the same basic nesting structure, with test scores nested within students, who were further nested within schools. Models differed in their specification of fixed and random effects. Any differences between students and between schools were treated as random effects throughout.

Model 1 considered an unconditional model with test scores nested within students and students nested within schools.

Model 2 considered a random-intercepts and fixed-slopes model with test scores nested within students and students nested within schools. Additionally, time-since-first-test was included as a level-1 predictor, while student-grade and baseline scores were included as level-2 predictors.

Model 3 considered a polynomial random intercepts and fixed slopes model with test scores nested within students and students nested within school. Additionally, time-since-first-test and time-since-first-test squared were included as level-1 predictors, while student grade and baseline scores were included as level-2 predictors.

Model 4 considered a random intercepts and random slopes model with test scores nested within students, and time-since-first-test and students nested within schools. Additionally, time-since-first-test was included as a level-1 predictor, while student grade and baseline scores were included as level-2 predictors. Note that time-since-first-test could not be nested within students as the model would be unidentified.

Model 1: Unconditional model

Model 1 establishes an unconditional baseline with no predictors. It partitions variance across three levels of analysis (tests, students, schools) to establish a baseline before adding any explanatory variables. Its purpose is to determine whether multilevel modeling is appropriate given the data. We defined level 1 of model 1, the unconditional model, using the following equation:

$$Y_{tij} = \beta_{0ij} + e_{tij} ,$$

where Y_{tij} is the math score at time *t* by student *i* in school *j*, β_{0ij} is the intercept for student *i* in school *j*, and e_{tij} is the error at time *t* for student *i* within school *j*. Level 2 of model 1 is defined by the equation below:

$$\beta_{0ij} = \pi_{00j} + r_{0ij} ,$$

where β_{0ij}, again, is the intercept of student *i* within school *j*, π_{00j} is the mean of school *j*, and r_{0ij} is the deviation of student *i* within school *j* from π_{00j}. Level 3 is defined via the following equation:

$$\pi_{00j} = \gamma_{000} + u_{00j} ,$$

where π_{00j}, again, is the mean of school *j*, γ_{000} is the overall mean, and u_{00j} is the deviation of school *j* from γ_{000}. The following equation is the combination of all previously defined levels for model 1:

$$Y_{tij} = \gamma_{000} + u_{00j} + r_{0ij} + e_{tij} .$$

Model 2: Random intercepts and fixed slopes model

Model 2 extends the structure of model 1 by adding predictors to evaluate linear growth conditioned on each student's baseline score and grade level. We defined level 1 of model 2, the random intercepts and fixed slopes model, using the following equation:

$$Y_{tij} = \beta_{0ij} + \beta_{100} Time_{tij} + e_{tij} ,$$

where β_{100} is the first fixed-slope term, and $Time_{tij}$ is the number of months since student *i* completed test *t* within school *j*.[1] Astute readers may question why we included the baseline score as a predictor. Without it, predictions based on a student's score would not be possible. Level 2 is defined by the equations below:

$$\beta_{0ij} = \pi_{00j} + \pi_{01j} Baseline_{ij} + \pi_{02j} Grade_{ij} + r_{0ij}$$
$$\beta_{100} = \pi_{100} ,$$

[1] *We also examined a model similar to model 2 that included an interaction between baseline scores and time, which, although statistically significant, had a practically insignificant effect on score predictions. Thus, we retained the more parsimonious model without an interaction effect.*

where π_{00j} is the mean of school *j*, π_{01j} represents the effect of students' baseline scores, π_{02j} represents the fixed effect of students' enrolled grade, and π_{100} represents the fixed rate of growth across time across all students within all schools. Level 3 is defined via the following equations:

$$\pi_{00j} = \gamma_{000} + u_{00j}$$
$$\pi_{01j} = \gamma_{010} + u_{01j}$$
$$\pi_{02j} = \gamma_{020} + u_{02j}$$
$$\pi_{100} = \gamma_{100},$$

where γ_{010} represents the mean effect of students' baseline scores on their intercepts, u_{01j} represents the deviation of school *j* from γ_{010}, γ_{020} represents the mean effect of students' enrolled grade on each student's intercept, u_{02j} represents the deviation of school *j* from γ_{020}, and γ_{100} represents the fixed effect of time on student growth. The following equation is the combination of all previously defined levels for model 2:

$$Y_{tij} = \gamma_{000} + u_{00j} + \gamma_{010}Baseline_{ij} + u_{01j}Baseline_{ij} + \gamma_{020}Grade_{ij} + u_{02j}Grade_{ij} + \gamma_{100}Time_{ijk} + r_{0jk} + e_{ijk}.$$

Model 3: Polynomial random intercepts and fixed slopes model

Model 3 extends the structure of model 2 by adding time-since-first-test squared to introduce growth at a decelerating rate. We defined level 1 of model 3, the polynomial random intercepts and fixed slopes model, using the following equation:

$$Y_{tij} = \beta_{0ij} + \beta_{100}Time_{tij} + \beta_{200}Time_{tij}^{2} + e_{tij},$$

where β_{200} is the second fixed-slope term, and $Time_{tij}^{2}$ is the squared length of time in months since student *i* completed test *t* relative to the baseline test taken by student *i* within school *j*. Level 2 is defined by the equations below:

$$\beta_{0ij} = \pi_{00j} + \pi_{01j}Baseline_{ij} + \pi_{02j}Grade_{ij} + r_{0ij}$$
$$\beta_{100} = \pi_{100}$$
$$\beta_{200} = \pi_{200},$$

where π_{200} represents the fixed effect of time-squared on student growth. Level 3 is defined via the following equations:

$$\pi_{00j} = \gamma_{000} + u_{00j}$$

$$\pi_{01j} = \gamma_{010} + u_{01j}$$
$$\pi_{02j} = \gamma_{020} + u_{02j}$$
$$\pi_{100} = \gamma_{100}$$
$$\pi_{200} = \gamma_{200},$$

where γ_{200} represents the second fixed-slope term. The following equation is the combination of all previously defined levels for model 3:

$$Y_{tij} = \gamma_{000} + u_{00j} + \gamma_{010}Baseline_{ij} + u_{01j}Baseline_{ij} + \gamma_{020}Grade_{ij} + u_{02j}Grade_{ij} + \gamma_{100}Time_{ijk} + \ldots$$
$$\ldots \gamma_{200}Time_{ijk}^{2} + r_{0jk} + e_{ijk}.$$

Model 4: Random intercepts and random slopes model

Model 4 extends the structure of model 2 by adding random slopes representing school-level growth trajectories.[2] We could not model student-level growth trajectories because the number of random effects outnumbered the number of observations, making the model underidentified. We defined level 1 of model 4, the random intercepts and random slopes model, using the following equation:

$$Y_{tij} = \beta_{0ij} + \beta_{10j}Time_{tij} + e_{tij},$$

where β_{10j} represents the unique slope for each school *j*. Level 2 is defined by the equations below:

$$\beta_{0ij} = \pi_{00j} + \pi_{01j}Baseline_{ij} + \pi_{02j}Grade_{ij} + r_{0ij}$$
$$\beta_{10j} = \pi_{10j},$$

where π_{10j} represents the slope for school *j*. Level 3 is defined via the following equations:

$$\pi_{00j} = \gamma_{000} + u_{00j}$$
$$\pi_{01j} = \gamma_{010} + u_{01j}$$
$$\pi_{02j} = \gamma_{020} + u_{02j}$$
$$\pi_{10j} = \gamma_{100} + u_{10j},$$

where γ_{100}represents the mean for all schools, and u_{10j} represents the deviation of school *j*'s slope from γ_{100}. The following equation is the combination of all previously defined levels for model 4:

[2] *Model 4 extended the structure of model 2 instead of model 3 because model 2 outperformed model 3.*

$$Y_{tij} = \gamma_{000} + u_{00j} + \gamma_{010} Baseline_{ij} + u_{01j} Baseline_{ij} + \gamma_{020} Grade_{ij} + u_{02j} Grade_{ij} + \gamma_{100} Time_{tij} + u_{10j} Time_{tij} + r_{0ij} + e_{tij}$$

.

Cross-validation

K-fold cross-validation is a method that randomly splits a dataset into k equal parts or folds. It uses k-1 datasets to train the model and the remaining dataset to evaluate the model. We used 10-fold cross-validation to investigate and compare the prediction accuracy of the multilevel models described in the previous subsection. Specifically, we examined the differences between these models using mean squared error (MSE), bias, absolute bias, and R^2. Table 4 reports these statistics across all models tested.

Table 4. Cross-validation multilevel models comparison

Model	MSE	Bias	Absolute bias	R2
Model 1	79954	-17.298	223.123	0.003
Model 2	25521	-9.164	108.930	0.663
Model 3	25522	-9.157	108.937	0.663
Model 4	25549	-10.058	108.968	0.663

We first compared the prediction accuracy of the four models using the MSE, which is the average of the squared differences between actual and predicted scores. Models with MSE closer to zero indicate superior prediction accuracy. Table 4 shows that model 2 (i.e., random intercepts and fixed slopes) outperformed all other models, followed by model 3 (i.e., polynomial random intercepts and fixed slopes), model 4 (i.e., random intercepts and random slopes), and then model 1 (i.e., unconditional). Figure 1 illustrates these differences.

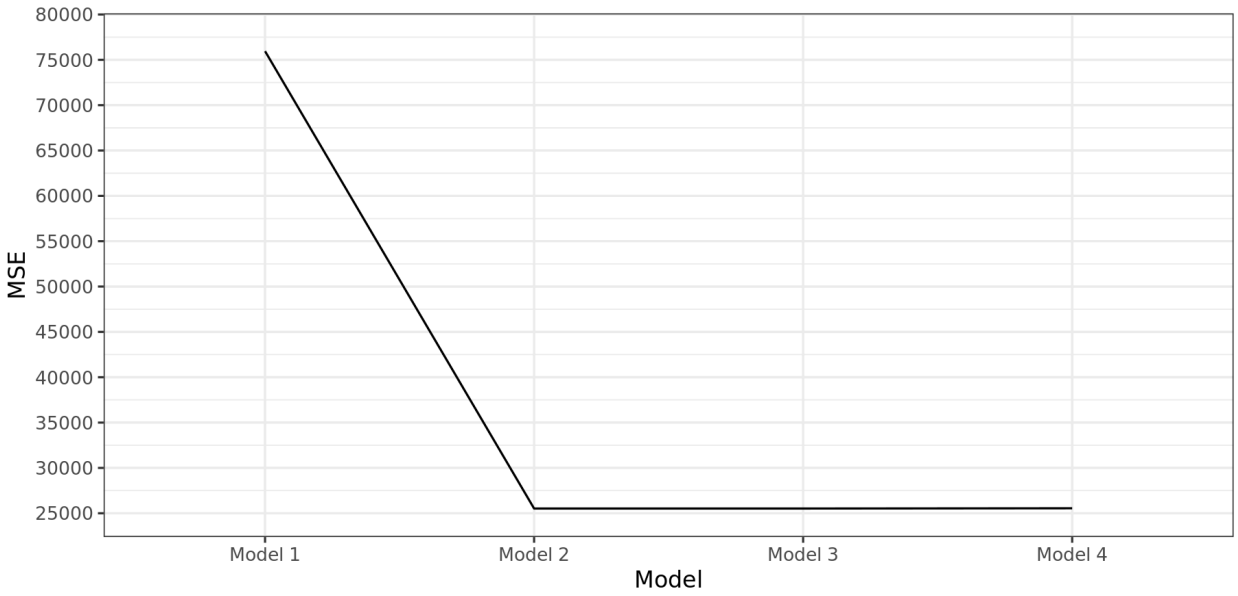

Figure 1: Cross-validation multilevel models comparison - Mean square error (MSE)

Next, we compared the bias in the predicted scores, which is the average difference between predicted and actual scores. Similar to MSE, a bias value closer to zero indicates superior predictive accuracy. Model 3 (i.e., polynomial random intercepts and fixed slopes) outperformed all other models, followed by model 2 (i.e., random intercepts and fixed slopes), model 4 (i.e., random intercepts and random slopes), and then model 1 (i.e., unconditional). Negative values indicate that predictions tend to underestimate actual ability, which all models exhibited in this case, with model 1 being the worst. Figure 2 illustrates these differences.

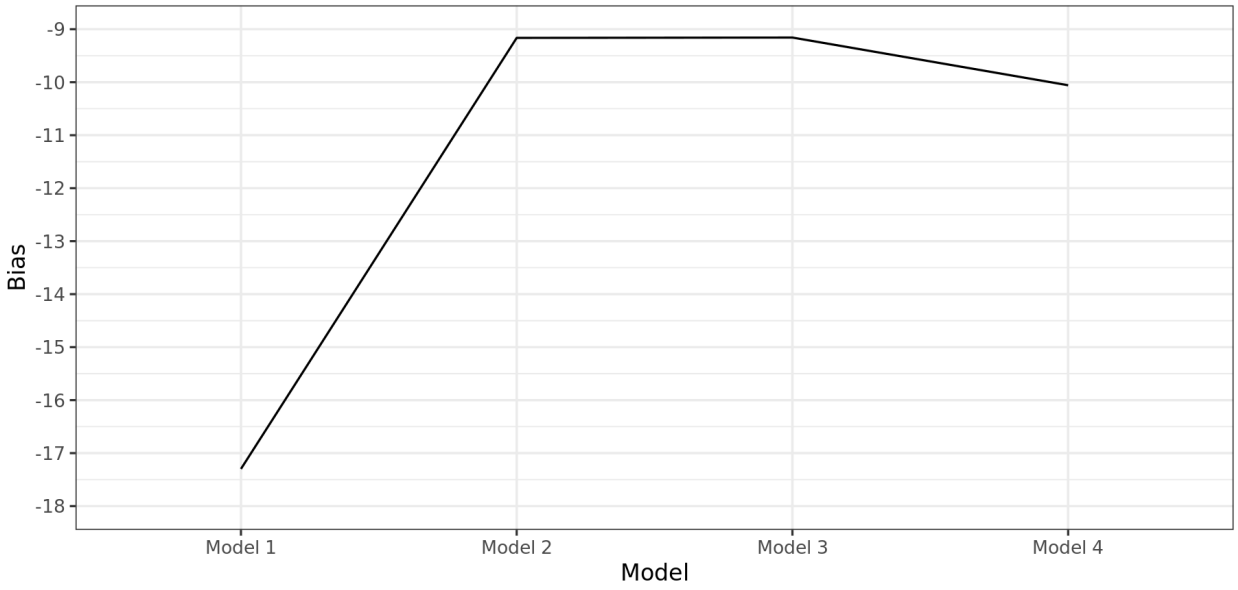

Figure 2: Cross-validation multilevel models comparison - Bias

We also investigated the differences in absolute bias between these models. Unlike bias, which gravitates toward zero because over-predictions and under-predictions tend to cancel each other out, absolute bias accounts for the size of the differences between predicted and actual scores by aggregating absolute differences. Unlike absolute bias, bias can conceal larger differences between predicted scores and actual scores. Like bias, values of absolute bias closer to zero indicate superior prediction accuracy. Model 2 (i.e., random intercepts and fixed slopes) outperformed all other models, followed by model 3 (i.e., polynomial random intercepts and fixed slopes), model 4 (i.e., random intercepts and random slopes), and then model 1 (i.e., unconditional). Figure 3 illustrates the differences between models in terms of absolute bias.

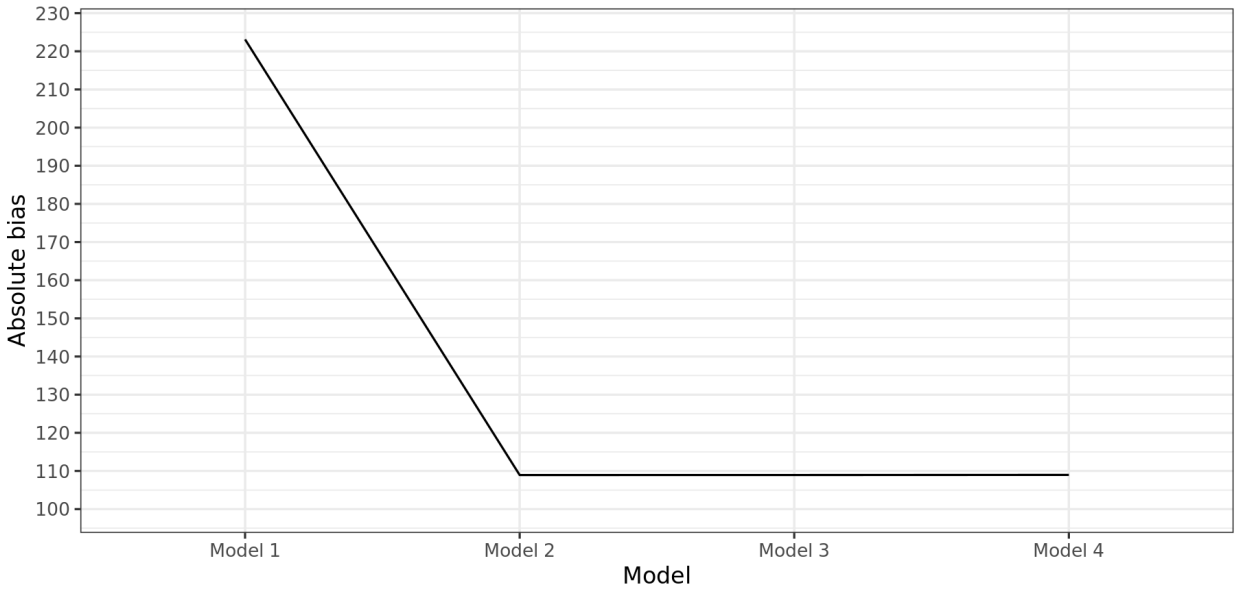

Figure 3: Cross-validation multilevel models comparison - Absolute bias

Next, we compared the differences in R^2 between the models, which measures the proportion of variance in the dependent variable (i.e., actual score) accounted for by the independent variable (i.e., predicted score). Values closer to one indicate superior prediction performance. Rounding to the nearest thousandth decimal place showed that model 2 (i.e., random intercepts and fixed slopes) tied with models 3 (i.e., polynomial random intercepts and fixed slopes) and 4 (i.e., random intercepts and random slopes) for superior prediction accuracy, followed by model 1 (i.e., unconditional). However, model 2 (i.e., $R^2 = 0.66274$) outperformed models 3 (i.e., $R^2 = 0.66272$) and 4 (i.e., $R^2 = 0.66259$) when accounting for a more precise decimal place. Figure 4 illustrates the difference between the models in terms of R^2.

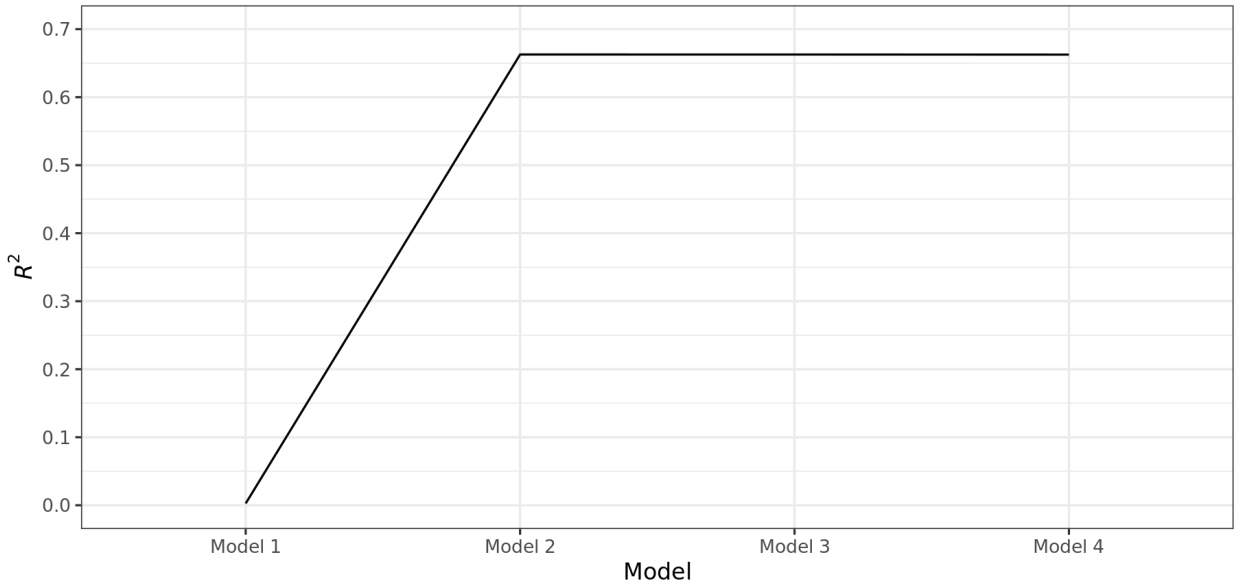

Figure 4: Cross-validation multilevel models comparison - R^2

Across three of the four metrics, model 2 outperformed all other models. It achieved the lowest MSE (i.e., 25521), the lowest absolute bias (i.e., 108.93), and the highest R2 (i.e., 0.663). Model 3 achieved the lowest bias (i.e., -9.157) but was inferior to model 2 in all other respects, indicating that adding a term representing growth curvature in model 3 did not meaningfully improve predictions. Thus, we selected model 2 to create the predicted growth norms. Although model 4 was more flexible in permitting school-level growth trajectories, it performed worse than models 2 and 3, suggesting that the characteristics of the data did not justify the added complexity.

Some predicted scores exceeded the scale; thus, we capped them to no less than zero and no more than 1200. Furthermore, we constrained scores to remain equivalent across months when the model predicted them to be less than the previous month to avoid confusion. The predicted scores associated with each grade and baseline score derived from this model are shown in Appendix B. Baseline represents month 0, and month 8 represents the end of the school year. We selected these time points because they approximate the average length of time found in the IXL LevelUp Diagnostic for Math test scores from the beginning to the end of the school year.

References

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APPENDIX A: ACHIEVEMENT NORMS

Table A1. Beginning-of-Year

Pctle	K	1	2	3	4	5	6	7	8	9	10	11	12
1	0	20	40	50	70	80	110	120	130	120	120	130	120
2	10	30	50	80	100	110	120	130	150	150	150	150	150
3	10	40	60	90	110	120	130	140	160	170	170	180	170
4	20	40	70	110	130	130	140	150	170	190	190	200	180
5	20	40	80	120	140	140	150	160	180	200	210	210	200
6	20	50	90	120	150	150	160	170	190	220	220	230	210
7	20	50	100	130	150	160	170	180	200	230	230	240	230
8	30	50	100	140	160	170	170	190	210	240	240	250	240
9	30	50	110	140	170	180	180	200	220	240	250	250	250
10	30	50	110	150	180	190	190	200	220	250	260	260	250
11	30	50	120	150	180	190	190	210	230	260	260	270	260
12	30	60	120	160	190	200	200	220	230	270	270	290	270
13	30	60	120	160	200	210	200	220	240	270	280	300	280
14	30	70	120	170	200	210	210	230	250	280	290	310	300
15	40	70	130	170	210	220	220	230	250	290	300	320	310
16	40	70	130	180	210	220	220	240	260	300	320	330	320
17	40	80	130	180	210	230	230	240	270	310	330	340	330
18	40	80	140	180	220	230	230	250	270	310	330	360	340
19	40	80	140	190	220	240	230	250	280	320	340	370	350
20	40	80	140	190	230	240	240	250	290	330	350	380	360
21	40	90	140	190	230	250	240	260	300	340	360	390	370
22	40	90	150	200	230	250	250	270	310	350	370	400	380
23	40	90	150	200	240	250	250	270	310	350	380	400	390
24	40	90	150	200	240	260	250	280	320	360	390	410	400
25	40	90	150	200	240	260	260	280	330	370	400	420	410
26	40	100	160	210	250	270	260	290	330	380	400	430	410
27	50	100	160	210	250	270	270	300	340	380	410	430	420
28	50	100	160	210	250	280	270	300	350	390	420	440	430
29	50	100	160	220	260	280	280	310	350	400	420	450	440
30	50	100	170	220	260	290	280	310	360	400	430	450	440
31	50	110	170	220	260	290	290	320	370	410	440	460	450
32	50	110	170	220	270	300	300	320	380	420	440	470	460
33	50	110	170	220	270	300	300	330	380	420	450	470	470

Table A1. Beginning-of-Year

Pctle	K	1	2	3	4	5	6	7	8	9	10	11	12
34	50	110	180	230	280	300	310	340	390	430	460	480	470
35	50	110	180	230	280	310	310	340	390	440	460	490	480
36	50	110	180	230	280	310	320	350	400	440	470	490	490
37	50	120	180	230	290	320	320	350	410	450	480	500	490
38	50	120	190	240	290	320	330	360	410	450	480	510	500
39	50	120	190	240	290	320	330	370	420	460	490	510	510
40	50	120	190	240	300	330	340	370	420	470	500	520	510
41	50	120	190	240	300	330	340	380	430	470	500	530	520
42	50	120	200	240	300	330	350	380	440	480	510	530	530
43	50	120	200	250	310	340	350	390	440	490	520	540	540
44	60	130	200	250	310	340	360	390	450	490	520	550	540
45	60	130	200	250	320	340	360	400	450	500	530	560	550
46	60	130	200	260	320	350	370	400	460	500	540	570	560
47	60	130	210	260	320	350	370	410	470	510	550	580	570
48	60	130	210	260	330	350	380	410	480	520	550	590	580
49	60	130	210	270	330	350	380	420	480	520	560	600	580
50	60	130	210	270	330	360	390	420	490	530	570	610	600
51	60	140	220	280	340	360	390	430	500	540	580	610	600
52	70	140	220	280	340	360	390	440	500	550	590	620	610
53	70	140	220	280	340	370	400	440	510	550	600	630	630
54	70	140	220	290	340	370	400	450	520	560	610	640	640
55	70	140	220	290	350	370	410	460	520	570	620	650	650
56	70	140	230	290	350	380	410	460	530	580	630	660	660
57	70	150	230	300	350	380	410	470	540	590	640	670	670
58	70	150	230	300	360	380	420	480	540	600	650	680	680
59	80	150	230	300	360	380	420	490	550	610	660	690	690
60	80	150	230	310	360	390	430	490	550	620	670	700	700
61	80	150	230	310	370	390	430	500	560	630	680	710	710
62	80	150	240	310	370	390	440	510	570	640	690	720	710
63	80	160	240	310	370	390	440	520	580	650	700	730	720
64	80	160	240	320	370	400	450	520	590	660	710	740	730
65	90	160	240	320	380	400	460	530	590	670	720	750	740
66	90	160	240	320	380	400	470	540	600	680	730	760	750
67	90	170	250	330	380	410	470	540	610	690	740	770	760
68	90	170	250	330	390	410	480	550	620	700	750	780	770
69	90	170	250	330	390	410	490	560	630	710	760	790	780
70	90	170	250	340	390	420	500	570	640	720	770	790	790
71	100	180	260	340	390	420	500	580	650	730	780	800	800
72	100	180	260	340	400	430	510	590	660	740	790	820	810
73	100	180	270	350	400	430	520	600	670	750	800	830	820

Table A1. Beginning-of-Year

Pctle	K	1	2	3	4	5	6	7	8	9	10	11	12
74	100	180	270	350	400	430	530	610	680	760	810	840	830
75	100	190	270	350	410	440	530	620	690	770	820	850	840
76	100	190	280	350	410	440	540	630	700	780	830	860	860
77	110	190	280	360	420	440	550	640	710	790	840	870	860
78	110	200	280	360	420	450	560	650	730	800	850	880	870
79	110	200	290	360	420	450	570	660	740	810	860	890	880
80	110	200	290	370	430	460	580	670	750	820	870	890	890
81	110	200	300	370	430	470	590	680	760	830	880	900	900
82	120	210	300	370	430	480	600	690	780	840	880	910	910
83	120	210	300	380	440	490	620	710	790	860	890	920	920
84	120	210	310	380	440	500	630	720	800	870	900	920	930
85	120	220	310	390	440	510	650	740	810	880	910	930	940
86	130	220	320	390	450	520	660	750	830	890	920	940	950
87	130	220	320	400	450	520	680	770	840	900	930	950	970
88	130	230	330	400	460	530	700	780	850	910	930	960	990
89	130	230	330	410	470	540	720	790	860	910	940	980	1010
90	140	240	340	420	480	550	730	810	880	920	950	1010	1040
91	140	240	350	420	490	570	750	830	890	930	970	1030	1090
92	140	250	350	430	500	590	770	840	910	940	990	1070	1170
93	150	250	360	440	510	620	800	860	930	950	1020	1130	1200
94	150	260	370	450	520	650	830	880	950	970	1050	1200	1200
95	160	280	390	460	540	680	860	900	990	1000	1120	1200	1200
96	170	300	400	470	560	730	880	930	1040	1040	1200	1200	1200
97	180	310	420	500	600	780	910	980	1160	1110	1200	1200	1200
98	200	340	440	530	650	860	960	1060	1200	1200	1200	1200	1200
99	230	390	480	620	800	950	1090	1200	1200	1200	1200	1200	1200

Table A2. Middle-of-Year

Pctle	K	1	2	3	4	5	6	7	8	9	10	11	12
1	20	40	70	100	120	130	130	130	130	120	120	130	110
2	30	50	90	120	150	160	160	160	150	150	150	160	140
3	30	50	110	140	160	180	180	180	170	170	170	180	150
4	40	70	120	150	180	200	190	190	190	190	190	200	170
5	40	70	130	160	190	210	210	210	210	210	210	220	190
6	40	80	140	170	200	220	220	220	220	220	220	230	200
7	40	90	140	170	210	230	230	230	230	230	230	250	220
8	40	90	150	180	220	240	230	240	240	240	250	260	230
9	50	100	150	190	230	250	240	240	250	250	250	270	240
10	50	100	150	190	240	250	250	250	250	260	270	290	250
11	50	100	160	200	240	260	250	260	260	270	280	310	260
12	50	110	160	200	250	270	260	260	270	280	290	320	270
13	50	110	160	210	250	270	270	270	280	300	310	340	280
14	50	110	170	210	250	280	270	280	290	310	320	350	300
15	50	120	170	220	260	290	280	290	300	320	330	360	310
16	60	120	170	220	270	300	290	300	310	330	350	380	320
17	60	120	180	230	270	300	290	300	320	340	360	390	340
18	60	130	180	230	270	310	300	310	320	350	370	400	350
19	60	130	180	230	280	320	310	320	330	360	380	410	360
20	60	130	180	240	280	320	320	330	340	370	390	420	370
21	70	130	190	240	290	330	320	330	350	380	400	430	380
22	70	140	190	240	290	340	330	340	360	390	410	440	390
23	70	140	190	250	300	340	340	350	370	400	420	450	400
24	70	140	190	250	300	350	340	350	370	410	430	450	410
25	70	140	200	250	310	350	350	360	380	420	440	460	420
26	70	150	200	250	310	360	350	370	390	420	450	470	430
27	80	150	200	260	320	360	360	380	400	430	450	480	440
28	80	150	210	260	320	370	360	380	400	440	460	490	450
29	80	150	210	260	330	370	370	390	410	450	470	500	460
30	80	150	210	270	330	380	380	400	420	460	480	500	470
31	80	150	210	270	340	380	380	400	420	460	490	510	480
32	80	150	220	270	340	390	390	410	430	470	500	520	480
33	80	160	220	270	340	390	400	420	440	480	500	530	490
34	80	160	220	280	350	390	400	420	450	490	510	540	500
35	90	160	220	280	350	400	410	430	450	490	520	540	510
36	90	160	230	280	350	400	410	440	460	500	530	550	520
37	90	160	230	280	360	410	420	440	470	510	540	570	520
38	90	170	230	280	360	410	420	450	480	520	540	580	530
39	90	170	230	290	360	410	430	460	490	520	550	590	540

Table A2. Middle-of-Year

Pctle	K	1	2	3	4	5	6	7	8	9	10	11	12
40	90	170	240	290	370	420	430	460	500	530	570	600	550
41	90	170	240	290	370	420	440	470	500	540	580	610	560
42	100	170	240	290	370	430	440	480	510	550	590	630	580
43	100	170	240	300	380	430	450	490	520	550	600	640	590
44	100	170	240	300	380	430	450	490	520	570	610	650	600
45	100	170	250	300	380	440	460	500	530	580	620	660	610
46	100	180	250	300	380	440	460	510	540	590	640	670	630
47	100	180	250	310	390	440	470	510	550	600	650	690	640
48	100	180	250	310	390	450	470	520	550	610	660	690	650
49	100	180	250	310	390	450	480	530	560	620	670	700	660
50	110	180	260	310	390	450	480	530	570	630	680	710	670
51	110	180	260	320	400	450	490	540	580	640	690	720	680
52	110	180	260	320	400	460	490	550	580	660	700	730	700
53	110	180	260	320	400	460	500	550	590	670	710	740	710
54	110	180	260	320	400	460	500	560	600	680	720	750	710
55	110	180	270	330	410	470	510	570	610	690	730	760	730
56	110	190	270	330	410	470	510	570	620	700	740	770	740
57	120	190	270	330	410	470	520	580	620	700	750	780	750
58	120	190	270	340	420	480	520	590	630	710	760	790	760
59	120	190	270	340	420	480	530	600	640	720	770	800	770
60	120	190	280	340	420	480	530	600	650	730	780	810	780
61	120	190	280	340	420	480	530	610	660	740	790	820	790
62	120	190	280	350	430	490	540	620	670	750	800	830	800
63	120	190	280	350	430	490	540	620	680	760	810	840	810
64	130	200	280	350	430	490	550	630	680	770	820	860	820
65	130	200	280	360	430	490	550	640	690	780	830	860	830
66	130	200	280	360	440	500	560	650	700	790	840	870	850
67	130	200	280	360	440	500	570	660	710	800	850	880	860
68	130	200	290	360	440	500	570	660	720	810	860	880	870
69	130	200	290	370	440	500	580	670	730	820	860	890	870
70	140	210	290	370	440	510	590	680	740	830	870	900	880
71	140	210	290	370	450	510	590	690	750	840	880	900	890
72	140	210	290	370	450	510	600	700	760	850	890	910	900
73	140	210	290	380	450	520	600	710	760	860	890	920	910
74	140	210	290	380	450	520	610	720	770	870	900	920	920
75	140	220	290	380	460	520	620	730	780	870	910	930	920
76	150	220	300	390	460	530	630	740	790	880	910	930	930
77	150	220	300	390	460	530	630	740	800	890	920	940	940
78	150	220	300	390	470	530	640	750	810	890	920	950	950
79	150	230	300	390	470	540	650	760	820	900	930	960	960

Table A2. Middle-of-Year

Pctle	K	1	2	3	4	5	6	7	8	9	10	11	12
80	150	230	300	390	470	540	650	770	830	910	940	970	980
81	160	230	300	400	480	550	660	780	840	910	940	990	1000
82	160	240	310	400	480	550	670	790	850	920	950	1010	1020
83	160	240	310	400	480	560	680	800	860	920	960	1030	1050
84	160	240	310	410	490	560	690	800	870	930	970	1050	1090
85	170	240	310	410	490	570	700	810	880	930	990	1080	1150
86	170	250	320	410	490	580	710	820	890	940	1010	1130	1200
87	170	250	320	420	490	580	720	820	900	950	1030	1170	1200
88	180	260	320	420	500	590	730	830	910	960	1050	1200	1200
89	180	260	330	430	500	600	740	840	920	970	1090	1200	1200
90	180	270	330	430	500	610	750	850	940	990	1140	1200	1200
91	180	270	340	440	510	620	770	860	950	1010	1200	1200	1200
92	190	280	350	440	510	630	780	860	980	1040	1200	1200	1200
93	190	280	360	450	510	640	790	870	1010	1060	1200	1200	1200
94	190	290	370	460	520	660	810	890	1040	1120	1200	1200	1200
95	200	290	380	470	530	680	820	900	1100	1200	1200	1200	1200
96	200	300	390	480	540	720	840	930	1190	1200	1200	1200	1200
97	210	300	400	490	550	770	860	960	1200	1200	1200	1200	1200
98	220	310	420	500	580	820	880	1030	1200	1200	1200	1200	1200
99	240	330	450	520	650	860	930	1200	1200	1200	1200	1200	1200

Table A3. End-of-Year

Pctle	K	1	2	3	4	5	6	7	8	9	10	11	12
1	20	50	70	100	130	130	130	120	120	120	130	120	100
2	30	60	110	130	150	160	160	150	150	150	150	150	120
3	40	80	120	150	170	180	180	170	170	180	180	170	140
4	40	90	130	160	190	200	200	190	190	200	200	190	150
5	50	100	140	170	210	220	220	210	200	220	210	210	170
6	50	110	150	180	220	230	230	220	220	230	230	220	180
7	50	110	150	190	230	240	230	230	230	240	240	240	190
8	60	120	160	200	240	250	240	240	240	250	250	250	200
9	60	120	170	210	240	250	250	250	250	260	260	260	210
10	70	130	170	220	250	260	260	250	250	280	280	280	220
11	70	130	170	220	260	270	260	260	260	290	290	300	230
12	70	140	180	230	260	280	270	270	270	310	310	310	240
13	70	140	180	230	270	290	280	280	280	320	320	330	250
14	80	140	190	240	280	300	290	290	290	330	330	340	250
15	80	150	190	240	280	300	300	300	300	340	350	360	260
16	80	150	200	250	290	310	310	310	310	350	360	370	280
17	80	150	200	250	300	320	310	320	320	360	370	380	290
18	90	150	210	250	300	330	320	330	330	370	380	390	300
19	90	160	210	260	310	340	330	340	340	380	390	410	320
20	90	160	210	260	320	340	340	350	350	390	400	420	330
21	90	160	220	270	320	350	340	350	360	400	410	430	340
22	90	160	220	270	330	350	350	360	370	410	420	440	350
23	100	170	230	270	340	360	360	370	380	420	430	450	360
24	100	170	230	280	340	370	360	380	390	430	440	450	380
25	100	170	230	280	350	370	370	390	400	440	450	460	390
26	100	170	240	290	350	380	380	400	400	440	460	470	400
27	110	170	240	290	360	380	390	410	410	450	470	480	410
28	110	170	240	290	360	390	390	410	420	460	480	490	410
29	110	180	240	300	370	390	400	420	430	470	490	500	420
30	110	180	250	300	380	400	410	430	440	480	500	510	430
31	110	180	250	310	380	410	410	440	450	490	510	520	440
32	110	180	250	310	390	410	420	450	460	490	510	530	450
33	120	180	250	310	390	420	430	450	470	500	520	540	460
34	120	180	250	320	400	420	430	460	480	510	530	550	470
35	120	180	260	320	400	430	440	470	490	520	540	560	480
36	120	180	260	330	400	430	450	480	500	530	550	570	490
37	120	190	260	330	410	430	450	490	510	540	570	590	500
38	130	190	270	340	410	440	460	500	510	550	580	600	510
39	130	190	270	340	420	440	470	510	520	550	600	610	520

Table A3. End-of-Year

Pctle	K	1	2	3	4	5	6	7	8	9	10	11	12
40	130	190	270	340	420	450	470	520	530	570	610	630	530
41	130	190	270	350	420	450	480	520	540	580	620	640	540
42	130	190	270	350	430	450	480	530	550	590	640	650	550
43	130	190	270	350	430	460	490	540	550	600	650	670	560
44	140	200	280	360	430	460	500	550	560	610	660	680	570
45	140	200	280	360	440	470	500	550	570	630	670	690	590
46	140	200	280	360	440	470	510	560	580	640	690	700	600
47	140	200	280	360	440	480	510	570	590	650	700	710	620
48	140	200	280	370	440	480	520	580	600	660	710	720	630
49	140	210	280	370	450	480	530	580	610	670	720	730	650
50	140	210	280	370	450	490	530	590	620	680	730	740	660
51	150	210	290	370	450	490	540	600	630	690	740	750	680
52	150	210	290	380	460	490	540	610	640	700	750	760	690
53	150	210	290	380	460	500	550	620	650	710	760	770	700
54	150	210	290	380	460	500	550	630	650	720	770	780	710
55	150	220	290	380	460	500	560	640	660	730	780	790	720
56	150	220	290	380	470	510	570	640	670	740	790	810	740
57	150	220	290	390	470	510	580	650	680	750	800	820	750
58	160	220	290	390	470	520	590	660	690	760	810	830	760
59	160	230	290	390	470	520	590	670	700	770	820	840	770
60	160	230	300	390	480	520	600	680	710	780	830	860	790
61	160	230	300	390	480	530	610	690	720	790	850	860	800
62	160	230	300	400	480	530	620	700	730	800	860	870	810
63	160	240	300	400	480	540	630	710	740	810	860	880	830
64	170	240	300	400	480	540	630	720	750	820	870	890	840
65	170	240	300	400	490	540	640	730	760	830	880	890	860
66	170	240	310	400	490	550	650	740	770	840	890	900	870
67	170	240	310	400	490	550	660	750	780	850	890	910	880
68	170	250	310	410	490	560	670	760	790	860	900	910	890
69	170	250	310	410	490	560	670	770	800	870	910	920	900
70	170	250	310	410	490	570	680	780	810	880	910	930	910
71	180	250	320	410	500	570	690	780	820	880	920	930	910
72	180	250	320	420	500	580	690	790	840	890	930	940	920
73	180	260	320	420	500	580	700	800	850	900	930	950	930
74	180	260	320	420	500	590	710	810	860	900	940	950	940
75	180	260	330	430	500	590	710	810	870	910	940	970	950
76	180	270	330	430	500	600	720	820	880	920	950	980	970
77	180	270	330	430	510	600	730	820	890	920	960	1000	990
78	190	270	340	430	510	600	730	830	890	930	980	1020	1010
79	190	270	340	440	510	610	740	840	900	930	990	1040	1040

Table A3. End-of-Year

Pctle	K	1	2	3	4	5	6	7	8	9	10	11	12
80	190	280	340	440	510	610	750	840	910	940	1010	1060	1070
81	190	280	350	440	520	620	760	850	920	940	1030	1090	1120
82	190	280	350	450	520	620	760	860	930	950	1050	1130	1170
83	190	280	360	450	520	630	770	860	930	960	1080	1180	1200
84	190	290	360	450	520	630	780	870	940	970	1120	1200	1200
85	200	290	370	460	530	640	790	870	940	990	1160	1200	1200
86	200	290	370	460	530	650	800	880	950	1000	1200	1200	1200
87	200	290	380	470	530	660	810	890	960	1020	1200	1200	1200
88	200	290	380	470	540	670	810	890	970	1040	1200	1200	1200
89	210	300	390	480	540	680	820	900	980	1070	1200	1200	1200
90	210	300	390	480	550	700	830	920	990	1110	1200	1200	1200
91	210	300	400	490	550	720	840	930	1010	1160	1200	1200	1200
92	220	300	400	490	570	730	850	940	1020	1200	1200	1200	1200
93	220	310	410	500	580	750	860	950	1040	1200	1200	1200	1200
94	230	310	410	500	590	770	870	960	1090	1200	1200	1200	1200
95	240	320	420	510	610	800	880	990	1150	1200	1200	1200	1200
96	250	320	430	520	630	820	910	1010	1200	1200	1200	1200	1200
97	260	330	440	530	660	850	930	1050	1200	1200	1200	1200	1200
98	280	350	460	550	710	870	980	1190	1200	1200	1200	1200	1200
99	310	380	500	600	820	920	1080	1200	1200	1200	1200	1200	1200

APPENDIX B: PREDICTED GROWTH NORMS

This table provides a growth projection across all grades from the beginning (BOY; August 1 – November 30), middle (MOY; December 1 – February 28), and end (EOY; March 1 – June 1) of the school year. Predictions are only provided for baseline BOY scores +/- 300 points from the grade-level expectation (e.g., Grade 5 BOY score of 500) due to limitations around prediction accuracy,

To determine the projected growth score of a student, begin by finding the student's rostered grade and identifying the BOY diagnostic score attained by the student. Each subsequent column in that row provides the predicted score for each month following the Baseline.

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
K	0	20	30	40	60	70	80	90	100
K	10	30	40	50	60	80	90	100	110
K	20	40	50	60	70	80	100	110	120
K	30	40	60	70	80	90	100	120	130
K	40	50	60	80	90	100	110	120	130
K	50	60	70	80	90	110	120	130	140
K	60	70	80	90	100	110	130	140	150
K	70	70	90	100	110	120	130	150	160
K	80	80	90	110	120	130	140	150	170
K	90	90	100	110	130	140	150	160	170
K	100	100	110	120	130	140	160	170	180
K	110	110	120	130	140	150	160	180	190
K	120	120	120	140	150	160	170	180	200
K	130	130	130	140	160	170	180	190	200
K	140	140	140	150	160	180	190	200	210
K	150	150	150	160	170	180	200	210	220
K	160	160	160	170	180	190	200	210	230
K	170	170	170	170	190	200	210	220	230
K	180	180	180	180	190	210	220	230	240
K	190	190	190	190	200	210	230	240	250
K	200	200	200	200	210	220	230	250	260

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
K	210	210	210	210	220	230	240	250	260
K	220	220	220	220	220	240	250	260	270
K	230	230	230	230	230	240	260	270	280
K	240	240	240	240	240	250	260	280	290
K	250	250	250	250	250	260	270	280	300
K	260	260	260	260	260	270	280	290	300
K	270	270	270	270	270	280	290	300	310
K	280	280	280	280	280	280	290	310	320
K	290	290	290	290	290	290	300	310	330
1	0	40	50	60	70	80	100	110	120
1	10	40	60	70	80	90	100	120	130
1	20	50	60	80	90	100	110	120	140
1	30	60	70	80	100	110	120	130	140
1	40	70	80	90	100	120	130	140	150
1	50	80	90	100	110	120	140	150	160
1	60	80	100	110	120	130	140	150	170
1	70	90	100	120	130	140	150	160	170
1	80	100	110	120	130	150	160	170	180
1	90	110	120	130	140	150	170	180	190
1	100	110	130	140	150	160	170	190	200
1	110	120	130	150	160	170	180	190	200
1	120	130	140	150	170	180	190	200	210
1	130	140	150	160	170	180	200	210	220
1	140	140	160	170	180	190	200	220	230
1	150	150	160	180	190	200	210	220	240
1	160	160	170	180	200	210	220	230	240
1	170	170	180	190	200	220	230	240	250
1	180	180	190	200	210	220	230	250	260
1	190	190	190	210	220	230	240	250	270
1	200	200	200	210	230	240	250	260	270
1	210	210	210	220	230	250	260	270	280
1	220	220	220	230	240	250	270	280	290
1	230	230	230	240	250	260	270	290	300
1	240	240	240	250	260	270	280	290	300
1	250	250	250	250	260	280	290	300	310
1	260	260	260	260	270	280	300	310	320

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
1	270	270	270	270	280	290	300	320	330
1	280	280	280	280	290	300	310	320	340
1	290	290	290	290	300	310	320	330	340
1	300	300	300	300	300	320	330	340	350
1	310	310	310	310	310	320	330	350	360
1	320	320	320	320	320	330	340	350	370
1	330	330	330	330	330	340	350	360	370
1	340	340	340	340	340	350	360	370	380
1	350	350	350	350	350	350	370	380	390
1	360	360	360	360	360	360	370	380	400
1	370	370	370	370	370	370	380	390	400
1	380	380	380	380	380	380	390	400	410
1	390	390	390	390	390	390	400	410	420
2	0	50	70	80	90	100	110	130	140
2	10	60	70	90	100	110	120	130	150
2	20	70	80	90	110	120	130	140	150
2	30	80	90	100	110	120	140	150	160
2	40	80	100	110	120	130	140	160	170
2	50	90	100	120	130	140	150	160	180
2	60	100	110	120	140	150	160	170	180
2	70	110	120	130	140	160	170	180	190
2	80	120	130	140	150	160	180	190	200
2	90	120	140	150	160	170	180	190	210
2	100	130	140	150	170	180	190	200	210
2	110	140	150	160	170	190	200	210	220
2	120	150	160	170	180	190	210	220	230
2	130	150	170	180	190	200	210	230	240
2	140	160	170	190	200	210	220	230	240
2	150	170	180	190	200	220	230	240	250
2	160	180	190	200	210	220	240	250	260
2	170	180	200	210	220	230	240	260	270
2	180	190	200	220	230	240	250	260	280
2	190	200	210	220	240	250	260	270	280
2	200	210	220	230	240	260	270	280	290
2	210	220	230	240	250	260	270	290	300
2	220	220	230	250	260	270	280	290	310

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
2	230	230	240	250	270	280	290	300	310
2	240	240	250	260	270	290	300	310	320
2	250	250	260	270	280	290	310	320	330
2	260	260	270	280	290	300	310	320	340
2	270	270	270	280	300	310	320	330	340
2	280	280	280	290	300	320	330	340	350
2	290	290	290	300	310	320	340	350	360
2	300	300	300	310	320	330	340	360	370
2	310	310	310	320	330	340	350	360	380
2	320	320	320	320	340	350	360	370	380
2	330	330	330	330	340	360	370	380	390
2	340	340	340	340	350	360	370	390	400
2	350	350	350	350	360	370	380	390	410
2	360	360	360	360	370	380	390	400	410
2	370	370	370	370	370	390	400	410	420
2	380	380	380	380	380	390	410	420	430
2	390	390	390	390	390	400	410	420	440
2	400	400	400	400	400	410	420	430	440
2	410	410	410	410	410	420	430	440	450
2	420	420	420	420	420	420	440	450	460
2	430	430	430	430	430	430	440	460	470
2	440	440	440	440	440	440	450	460	480
2	450	450	450	450	450	450	460	470	480
2	460	460	460	460	460	460	470	480	490
2	470	470	470	470	470	470	470	490	500
2	480	480	480	480	480	480	480	490	510
2	490	490	490	490	490	490	490	500	510
3	0	70	80	100	110	120	130	140	150
3	10	80	90	100	110	130	140	150	160
3	20	90	100	110	120	130	150	160	170
3	30	90	110	120	130	140	150	170	180
3	40	100	110	130	140	150	160	170	190
3	50	110	120	130	150	160	170	180	190
3	60	120	130	140	150	160	180	190	200
3	70	120	140	150	160	170	180	200	210
3	80	130	140	160	170	180	190	200	220

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
3	90	140	150	160	180	190	200	210	220
3	100	150	160	170	180	200	210	220	230
3	110	160	170	180	190	200	220	230	240
3	120	160	170	190	200	210	220	230	250
3	130	170	180	190	210	220	230	240	250
3	140	180	190	200	210	230	240	250	260
3	150	190	200	210	220	230	250	260	270
3	160	190	210	220	230	240	250	270	280
3	170	200	210	230	240	250	260	270	280
3	180	210	220	230	240	260	270	280	290
3	190	220	230	240	250	260	280	290	300
3	200	220	240	250	260	270	280	300	310
3	210	230	240	260	270	280	290	300	320
3	220	240	250	260	280	290	300	310	320
3	230	250	260	270	280	300	310	320	330
3	240	260	270	280	290	300	310	330	340
3	250	260	270	290	300	310	320	330	350
3	260	270	280	290	310	320	330	340	350
3	270	280	290	300	310	330	340	350	360
3	280	290	300	310	320	330	350	360	370
3	290	290	310	320	330	340	350	360	380
3	300	300	310	320	340	350	360	370	380
3	310	310	320	330	340	360	370	380	390
3	320	320	330	340	350	360	380	390	400
3	330	330	340	350	360	370	380	400	410
3	340	340	340	360	370	380	390	400	420
3	350	350	350	360	380	390	400	410	420
3	360	360	360	370	380	400	410	420	430
3	370	370	370	380	390	400	410	430	440
3	380	380	380	390	400	410	420	430	450
3	390	390	390	390	410	420	430	440	450
3	400	400	400	400	410	430	440	450	460
3	410	410	410	410	420	430	450	460	470
3	420	420	420	420	430	440	450	460	480
3	430	430	430	430	440	450	460	470	480
3	440	440	440	440	440	460	470	480	490

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
3	450	450	450	450	450	460	480	490	500
3	460	460	460	460	460	470	480	500	510
3	470	470	470	470	470	480	490	500	520
3	480	480	480	480	480	490	500	510	520
3	490	490	490	490	490	490	510	520	530
3	500	500	500	500	500	500	510	530	540
3	510	510	510	510	510	510	520	530	550
3	520	520	520	520	520	520	530	540	550
3	530	530	530	530	530	530	540	550	560
3	540	540	540	540	540	540	540	560	570
3	550	550	550	550	550	550	550	560	580
3	560	560	560	560	560	560	560	570	580
3	570	570	570	570	570	570	570	580	590
3	580	580	580	580	580	580	580	590	600
3	590	590	590	590	590	590	590	600	610
4	100	160	180	190	200	210	220	240	250
4	110	170	180	200	210	220	230	240	260
4	120	180	190	200	220	230	240	250	260
4	130	190	200	210	220	240	250	260	270
4	140	200	210	220	230	240	250	270	280
4	150	200	210	230	240	250	260	270	290
4	160	210	220	230	250	260	270	280	290
4	170	220	230	240	250	270	280	290	300
4	180	230	240	250	260	270	290	300	310
4	190	230	250	260	270	280	290	310	320
4	200	240	250	270	280	290	300	310	320
4	210	250	260	270	280	300	310	320	330
4	220	260	270	280	290	300	320	330	340
4	230	260	280	290	300	310	320	340	350
4	240	270	280	300	310	320	330	340	360
4	250	280	290	300	320	330	340	350	360
4	260	290	300	310	320	340	350	360	370
4	270	290	310	320	330	340	350	370	380
4	280	300	310	330	340	350	360	370	390
4	290	310	320	330	350	360	370	380	390
4	300	320	330	340	350	370	380	390	400

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
4	310	330	340	350	360	370	390	400	410
4	320	330	350	360	370	380	390	400	420
4	330	340	350	360	380	390	400	410	420
4	340	350	360	370	380	400	410	420	430
4	350	360	370	380	390	400	420	430	440
4	360	360	380	390	400	410	420	440	450
4	370	370	380	400	410	420	430	440	460
4	380	380	390	400	420	430	440	450	460
4	390	390	400	410	420	430	450	460	470
4	400	400	410	420	430	440	450	470	480
4	410	410	410	430	440	450	460	470	490
4	420	420	420	430	450	460	470	480	490
4	430	430	430	440	450	470	480	490	500
4	440	440	440	450	460	470	480	500	510
4	450	450	450	460	470	480	490	500	520
4	460	460	460	460	480	490	500	510	520
4	470	470	470	470	480	500	510	520	530
4	480	480	480	480	490	500	520	530	540
4	490	490	490	490	500	510	520	540	550
4	500	500	500	500	510	520	530	540	550
4	510	510	510	510	510	530	540	550	560
4	520	520	520	520	520	530	550	560	570
4	530	530	530	530	530	540	550	570	580
4	540	540	540	540	540	550	560	570	590
4	550	550	550	550	550	560	570	580	590
4	560	560	560	560	560	570	580	590	600
4	570	570	570	570	570	570	580	600	610
4	580	580	580	580	580	580	590	600	620
4	590	590	590	590	590	590	600	610	620
4	600	600	600	600	600	600	610	620	630
4	610	610	610	610	610	610	620	630	640
4	620	620	620	620	620	620	620	640	650
4	630	630	630	630	630	630	630	640	650
4	640	640	640	640	640	640	640	650	660
4	650	650	650	650	650	650	650	660	670
4	660	660	660	660	660	660	660	670	680

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
4	670	670	670	670	670	670	670	670	690
4	680	680	680	680	680	680	680	680	690
4	690	690	690	690	690	690	690	690	700
5	200	260	270	280	290	310	320	330	340
5	210	270	280	290	300	310	330	340	350
5	220	270	290	300	310	320	330	350	360
5	230	280	290	310	320	330	340	350	360
5	240	290	300	310	320	340	350	360	370
5	250	300	310	320	330	340	360	370	380
5	260	300	320	330	340	350	360	380	390
5	270	310	320	340	350	360	370	380	400
5	280	320	330	340	360	370	380	390	400
5	290	330	340	350	360	370	390	400	410
5	300	330	350	360	370	380	390	410	420
5	310	340	350	370	380	390	400	410	430
5	320	350	360	370	390	400	410	420	430
5	330	360	370	380	390	410	420	430	440
5	340	370	380	390	400	410	430	440	450
5	350	370	380	400	410	420	430	440	460
5	360	380	390	400	420	430	440	450	460
5	370	390	400	410	420	440	450	460	470
5	380	400	410	420	430	440	460	470	480
5	390	400	420	430	440	450	460	480	490
5	400	410	420	440	450	460	470	480	500
5	410	420	430	440	460	470	480	490	500
5	420	430	440	450	460	470	490	500	510
5	430	430	450	460	470	480	490	510	520
5	440	440	450	470	480	490	500	510	530
5	450	450	460	470	490	500	510	520	530
5	460	460	470	480	490	510	520	530	540
5	470	470	480	490	500	510	520	540	550
5	480	480	480	500	510	520	530	540	560
5	490	490	490	500	520	530	540	550	560
5	500	500	500	510	520	540	550	560	570
5	510	510	510	520	530	540	560	570	580
5	520	520	520	530	540	550	560	580	590

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
5	530	530	530	540	550	560	570	580	590
5	540	540	540	540	550	570	580	590	600
5	550	550	550	550	560	570	590	600	610
5	560	560	560	560	570	580	590	610	620
5	570	570	570	570	580	590	600	610	630
5	580	580	580	580	590	600	610	620	630
5	590	590	590	590	590	600	620	630	640
5	600	600	600	600	600	610	620	640	650
5	610	610	610	610	610	620	630	640	660
5	620	620	620	620	620	630	640	650	660
5	630	630	630	630	630	640	650	660	670
5	640	640	640	640	640	640	660	670	680
5	650	650	650	650	650	650	660	670	690
5	660	660	660	660	660	660	670	680	690
5	670	670	670	670	670	670	680	690	700
5	680	680	680	680	680	680	690	700	710
5	690	690	690	690	690	690	690	710	720
5	700	700	700	700	700	700	700	710	730
5	710	710	710	710	710	710	710	720	730
5	720	720	720	720	720	720	720	730	740
5	730	730	730	730	730	730	730	740	750
5	740	740	740	740	740	740	740	740	760
5	750	750	750	750	750	750	750	750	760
5	760	760	760	760	760	760	760	760	770
5	770	770	770	770	770	770	770	770	780
5	780	780	780	780	780	780	780	780	790
5	790	790	790	790	790	790	790	790	790
6	300	350	360	380	390	400	410	420	440
6	310	360	370	380	400	410	420	430	440
6	320	370	380	390	400	420	430	440	450
6	330	380	390	400	410	420	430	450	460
6	340	380	390	410	420	430	440	450	470
6	350	390	400	410	430	440	450	460	470
6	360	400	410	420	430	450	460	470	480
6	370	410	420	430	440	450	470	480	490
6	380	410	420	440	450	460	470	480	500

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
6	390	420	430	440	460	470	480	490	500
6	400	430	440	450	460	480	490	500	510
6	410	440	450	460	470	480	500	510	520
6	420	440	460	470	480	490	500	520	530
6	430	450	460	480	490	500	510	520	540
6	440	460	470	480	500	510	520	530	540
6	450	470	480	490	500	510	530	540	550
6	460	470	490	500	510	520	530	550	560
6	470	480	490	510	520	530	540	550	570
6	480	490	500	510	530	540	550	560	570
6	490	500	510	520	530	550	560	570	580
6	500	510	520	530	540	550	560	580	590
6	510	510	520	540	550	560	570	580	600
6	520	520	530	540	560	570	580	590	600
6	530	530	540	550	560	580	590	600	610
6	540	540	550	560	570	580	600	610	620
6	550	550	560	570	580	590	600	620	630
6	560	560	560	580	590	600	610	620	630
6	570	570	570	580	590	610	620	630	640
6	580	580	580	590	600	610	630	640	650
6	590	590	590	600	610	620	630	650	660
6	600	600	600	610	620	630	640	650	670
6	610	610	610	610	630	640	650	660	670
6	620	620	620	620	630	640	660	670	680
6	630	630	630	630	640	650	660	680	690
6	640	640	640	640	650	660	670	680	700
6	650	650	650	650	660	670	680	690	700
6	660	660	660	660	660	680	690	700	710
6	670	670	670	670	670	680	700	710	720
6	680	680	680	680	680	690	700	710	730
6	690	690	690	690	690	700	710	720	730
6	700	700	700	700	700	710	720	730	740
6	710	710	710	710	710	710	730	740	750
6	720	720	720	720	720	720	730	750	760
6	730	730	730	730	730	730	740	750	770
6	740	740	740	740	740	740	750	760	770

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
6	750	750	750	750	750	750	760	770	780
6	760	760	760	760	760	760	760	780	790
6	770	770	770	770	770	770	770	780	800
6	780	780	780	780	780	780	780	790	800
6	790	790	790	790	790	790	790	800	810
6	800	800	800	800	800	800	800	810	820
6	810	810	810	810	810	810	810	810	830
6	820	820	820	820	820	820	820	820	830
6	830	830	830	830	830	830	830	830	840
6	840	840	840	840	840	840	840	840	850
6	850	850	850	850	850	850	850	850	860
6	860	860	860	860	860	860	860	860	860
6	870	870	870	870	870	870	870	870	870
6	880	880	880	880	880	880	880	880	880
6	890	890	890	890	890	890	890	890	890
7	400	450	460	470	480	490	510	520	530
7	410	450	460	480	490	500	510	520	540
7	420	460	470	480	500	510	520	530	540
7	430	470	480	490	500	520	530	540	550
7	440	480	490	500	510	520	540	550	560
7	450	480	500	510	520	530	540	560	570
7	460	490	500	520	530	540	550	560	580
7	470	500	510	520	540	550	560	570	580
7	480	510	520	530	540	550	570	580	590
7	490	510	530	540	550	560	570	590	600
7	500	520	530	550	560	570	580	590	610
7	510	530	540	550	570	580	590	600	610
7	520	540	550	560	570	590	600	610	620
7	530	550	560	570	580	590	600	620	630
7	540	550	560	580	590	600	610	620	640
7	550	560	570	580	600	610	620	630	640
7	560	570	580	590	600	620	630	640	650
7	570	580	590	600	610	620	640	650	660
7	580	580	600	610	620	630	640	660	670
7	590	590	600	620	630	640	650	660	670
7	600	600	610	620	630	650	660	670	680

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
7	610	610	620	630	640	650	670	680	690
7	620	620	630	640	650	660	670	690	700
7	630	630	630	650	660	670	680	690	710
7	640	640	640	650	670	680	690	700	710
7	650	650	650	660	670	680	700	710	720
7	660	660	660	670	680	690	700	720	730
7	670	670	670	680	690	700	710	720	740
7	680	680	680	680	700	710	720	730	740
7	690	690	690	690	700	720	730	740	750
7	700	700	700	700	710	720	740	750	760
7	710	710	710	710	720	730	740	750	770
7	720	720	720	720	730	740	750	760	770
7	730	730	730	730	730	750	760	770	780
7	740	740	740	740	740	750	770	780	790
7	750	750	750	750	750	760	770	790	800
7	760	760	760	760	760	770	780	790	810
7	770	770	770	770	770	780	790	800	810
7	780	780	780	780	780	780	800	810	820
7	790	790	790	790	790	790	800	820	830
7	800	800	800	800	800	800	810	820	840
7	810	810	810	810	810	810	820	830	840
7	820	820	820	820	820	820	830	840	850
7	830	830	830	830	830	830	830	850	860
7	840	840	840	840	840	840	840	850	870
7	850	850	850	850	850	850	850	860	870
7	860	860	860	860	860	860	860	870	880
7	870	870	870	870	870	870	870	880	890
7	880	880	880	880	880	880	880	890	900
7	890	890	890	890	890	890	890	890	900
7	900	900	900	900	900	900	900	900	910
7	910	910	910	910	910	910	910	910	920
7	920	920	920	920	920	920	920	920	930
7	930	930	930	930	930	930	930	930	940
7	940	940	940	940	940	940	940	940	940
7	950	950	950	950	950	950	950	950	950
7	960	960	960	960	960	960	960	960	960

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
7	970	970	970	970	970	970	970	970	970
7	980	980	980	980	980	980	980	980	980
7	990	990	990	990	990	990	990	990	990
8	500	540	550	560	580	590	600	610	620
8	510	550	560	570	580	590	610	620	630
8	520	550	570	580	590	600	610	630	640
8	530	560	570	590	600	610	620	630	650
8	540	570	580	590	610	620	630	640	650
8	550	580	590	600	610	630	640	650	660
8	560	580	600	610	620	630	640	660	670
8	570	590	600	620	630	640	650	660	680
8	580	600	610	620	640	650	660	670	680
8	590	610	620	630	640	660	670	680	690
8	600	620	630	640	650	660	680	690	700
8	610	620	640	650	660	670	680	700	710
8	620	630	640	660	670	680	690	700	710
8	630	640	650	660	670	690	700	710	720
8	640	650	660	670	680	690	710	720	730
8	650	650	670	680	690	700	710	730	740
8	660	660	670	690	700	710	720	730	750
8	670	670	680	690	710	720	730	740	750
8	680	680	690	700	710	720	740	750	760
8	690	690	700	710	720	730	740	760	770
8	700	700	700	720	730	740	750	760	780
8	710	710	710	720	740	750	760	770	780
8	720	720	720	730	740	760	770	780	790
8	730	730	730	740	750	760	780	790	800
8	740	740	740	750	760	770	780	790	810
8	750	750	750	750	770	780	790	800	810
8	760	760	760	760	770	790	800	810	820
8	770	770	770	770	780	790	810	820	830
8	780	780	780	780	790	800	810	830	840
8	790	790	790	790	800	810	820	830	840
8	800	800	800	800	800	820	830	840	850
8	810	810	810	810	810	820	840	850	860
8	820	820	820	820	820	830	840	860	870

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
8	830	830	830	830	830	840	850	860	880
8	840	840	840	840	840	850	860	870	880
8	850	850	850	850	850	860	870	880	890
8	860	860	860	860	860	860	870	890	900
8	870	870	870	870	870	870	880	890	910
8	880	880	880	880	880	880	890	900	910
8	890	890	890	890	890	890	900	910	920
8	900	900	900	900	900	900	910	920	930
8	910	910	910	910	910	910	910	920	940
8	920	920	920	920	920	920	920	930	940
8	930	930	930	930	930	930	930	940	950
8	940	940	940	940	940	940	940	950	960
8	950	950	950	950	950	950	950	960	970
8	960	960	960	960	960	960	960	960	980
8	970	970	970	970	970	970	970	970	980
8	980	980	980	980	980	980	980	980	990
8	990	990	990	990	990	990	990	990	1000
8	1000	1000	1000	1000	1000	1000	1000	1000	1010
8	1010	1010	1010	1010	1010	1010	1010	1010	1010
8	1020	1020	1020	1020	1020	1020	1020	1020	1020
8	1030	1030	1030	1030	1030	1030	1030	1030	1030
8	1040	1040	1040	1040	1040	1040	1040	1040	1040
8	1050	1050	1050	1050	1050	1050	1050	1050	1050
8	1060	1060	1060	1060	1060	1060	1060	1060	1060
8	1070	1070	1070	1070	1070	1070	1070	1070	1070
8	1080	1080	1080	1080	1080	1080	1080	1080	1080
8	1090	1090	1090	1090	1090	1090	1090	1090	1090
9	600	630	640	660	670	680	690	700	720
9	610	640	650	660	680	690	700	710	720
9	620	650	660	670	680	700	710	720	730
9	630	660	670	680	690	700	720	730	740
9	640	660	680	690	700	710	720	740	750
9	650	670	680	700	710	720	730	740	750
9	660	680	690	700	710	730	740	750	760
9	670	690	700	710	720	730	750	760	770
9	680	690	710	720	730	740	750	770	780

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
9	690	700	710	730	740	750	760	770	790
9	700	710	720	730	750	760	770	780	790
9	710	720	730	740	750	760	780	790	800
9	720	720	740	750	760	770	780	800	810
9	730	730	740	760	770	780	790	800	820
9	740	740	750	760	780	790	800	810	820
9	750	750	760	770	780	800	810	820	830
9	760	760	770	780	790	800	820	830	840
9	770	770	780	790	800	810	820	830	850
9	780	780	780	790	810	820	830	840	850
9	790	790	790	800	810	830	840	850	860
9	800	800	800	810	820	830	850	860	870
9	810	810	810	820	830	840	850	870	880
9	820	820	820	830	840	850	860	870	880
9	830	830	830	830	840	860	870	880	890
9	840	840	840	840	850	860	880	890	900
9	850	850	850	850	860	870	880	900	910
9	860	860	860	860	870	880	890	900	920
9	870	870	870	870	880	890	900	910	920
9	880	880	880	880	880	900	910	920	930
9	890	890	890	890	890	900	910	930	940
9	900	900	900	900	900	910	920	930	950
9	910	910	910	910	910	920	930	940	950
9	920	920	920	920	920	930	940	950	960
9	930	930	930	930	930	930	950	960	970
9	940	940	940	940	940	940	950	960	980
9	950	950	950	950	950	950	960	970	980
9	960	960	960	960	960	960	970	980	990
9	970	970	970	970	970	970	980	990	1000
9	980	980	980	980	980	980	980	1000	1010
9	990	990	990	990	990	990	990	1000	1020
9	1000	1000	1000	1000	1000	1000	1000	1010	1020
9	1010	1010	1010	1010	1010	1010	1010	1020	1030
9	1020	1020	1020	1020	1020	1020	1020	1030	1040
9	1030	1030	1030	1030	1030	1030	1030	1030	1050
9	1040	1040	1040	1040	1040	1040	1040	1040	1050

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
9	1050	1050	1050	1050	1050	1050	1050	1050	1060
9	1060	1060	1060	1060	1060	1060	1060	1060	1070
9	1070	1070	1070	1070	1070	1070	1070	1070	1080
9	1080	1080	1080	1080	1080	1080	1080	1080	1080
9	1090	1090	1090	1090	1090	1090	1090	1090	1090
9	1100	1100	1100	1100	1100	1100	1100	1100	1100
9	1110	1110	1110	1110	1110	1110	1110	1110	1110
9	1120	1120	1120	1120	1120	1120	1120	1120	1120
9	1130	1130	1130	1130	1130	1130	1130	1130	1130
9	1140	1140	1140	1140	1140	1140	1140	1140	1140
9	1150	1150	1150	1150	1150	1150	1150	1150	1150
9	1160	1160	1160	1160	1160	1160	1160	1160	1160
9	1170	1170	1170	1170	1170	1170	1170	1170	1170
9	1180	1180	1180	1180	1180	1180	1180	1180	1180
9	1190	1190	1190	1190	1190	1190	1190	1190	1190
10	700	730	740	750	760	770	790	800	810
10	710	730	750	760	770	780	790	810	820
10	720	740	750	770	780	790	800	810	830
10	730	750	760	770	790	800	810	820	830
10	740	760	770	780	790	800	820	830	840
10	750	760	780	790	800	810	820	840	850
10	760	770	780	800	810	820	830	840	860
10	770	780	790	800	820	830	840	850	860
10	780	790	800	810	820	840	850	860	870
10	790	800	810	820	830	840	850	870	880
10	800	800	810	830	840	850	860	870	890
10	810	810	820	830	850	860	870	880	890
10	820	820	830	840	850	870	880	890	900
10	830	830	840	850	860	870	890	900	910
10	840	840	850	860	870	880	890	910	920
10	850	850	850	870	880	890	900	910	920
10	860	860	860	870	880	900	910	920	930
10	870	870	870	880	890	900	920	930	940
10	880	880	880	890	900	910	920	940	950
10	890	890	890	900	910	920	930	940	960
10	900	900	900	900	920	930	940	950	960

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
10	910	910	910	910	920	940	950	960	970
10	920	920	920	920	930	940	950	970	980
10	930	930	930	930	940	950	960	970	990
10	940	940	940	940	950	960	970	980	990
10	950	950	950	950	950	970	980	990	1000
10	960	960	960	960	960	970	990	1000	1010
10	970	970	970	970	970	980	990	1000	1020
10	980	980	980	980	980	990	1000	1010	1020
10	990	990	990	990	990	1000	1010	1020	1030
10	1000	1000	1000	1000	1000	1000	1020	1030	1040
10	1010	1010	1010	1010	1010	1010	1020	1040	1050
10	1020	1020	1020	1020	1020	1020	1030	1040	1060
10	1030	1030	1030	1030	1030	1030	1040	1050	1060
10	1040	1040	1040	1040	1040	1040	1050	1060	1070
10	1050	1050	1050	1050	1050	1050	1050	1070	1080
10	1060	1060	1060	1060	1060	1060	1060	1070	1090
10	1070	1070	1070	1070	1070	1070	1070	1080	1090
10	1080	1080	1080	1080	1080	1080	1080	1090	1100
10	1090	1090	1090	1090	1090	1090	1090	1100	1110
10	1100	1100	1100	1100	1100	1100	1100	1100	1120
10	1110	1110	1110	1110	1110	1110	1110	1110	1120
10	1120	1120	1120	1120	1120	1120	1120	1120	1130
10	1130	1130	1130	1130	1130	1130	1130	1130	1140
10	1140	1140	1140	1140	1140	1140	1140	1140	1150
10	1150	1150	1150	1150	1150	1150	1150	1150	1150
10	1160	1160	1160	1160	1160	1160	1160	1160	1160
10	1170	1170	1170	1170	1170	1170	1170	1170	1170
10	1180	1180	1180	1180	1180	1180	1180	1180	1180
10	1190	1190	1190	1190	1190	1190	1190	1190	1190
10	1200	1200	1200	1200	1200	1200	1200	1200	1200
11	800	820	830	840	860	870	880	890	900
11	810	830	840	850	860	880	890	900	910
11	820	840	850	860	870	880	890	910	920
11	830	840	850	870	880	890	900	910	930
11	840	850	860	870	890	900	910	920	930
11	850	860	870	880	890	910	920	930	940

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
11	860	870	880	890	900	910	930	940	950
11	870	870	890	900	910	920	930	940	960
11	880	880	890	910	920	930	940	950	960
11	890	890	900	910	920	940	950	960	970
11	900	900	910	920	930	940	960	970	980
11	910	910	920	930	940	950	960	980	990
11	920	920	920	940	950	960	970	980	1000
11	930	930	930	940	960	970	980	990	1000
11	940	940	940	950	960	980	990	1000	1010
11	950	950	950	960	970	980	990	1010	1020
11	960	960	960	970	980	990	1000	1010	1030
11	970	970	970	970	990	1000	1010	1020	1030
11	980	980	980	980	990	1010	1020	1030	1040
11	990	990	990	990	1000	1010	1030	1040	1050
11	1000	1000	1000	1000	1010	1020	1030	1040	1060
11	1010	1010	1010	1010	1020	1030	1040	1050	1060
11	1020	1020	1020	1020	1020	1040	1050	1060	1070
11	1030	1030	1030	1030	1030	1040	1060	1070	1080
11	1040	1040	1040	1040	1040	1050	1060	1080	1090
11	1050	1050	1050	1050	1050	1060	1070	1080	1100
11	1060	1060	1060	1060	1060	1070	1080	1090	1100
11	1070	1070	1070	1070	1070	1070	1090	1100	1110
11	1080	1080	1080	1080	1080	1080	1090	1110	1120
11	1090	1090	1090	1090	1090	1090	1100	1110	1130
11	1100	1100	1100	1100	1100	1100	1110	1120	1130
11	1110	1110	1110	1110	1110	1110	1120	1130	1140
11	1120	1120	1120	1120	1120	1120	1120	1140	1150
11	1130	1130	1130	1130	1130	1130	1130	1140	1160
11	1140	1140	1140	1140	1140	1140	1140	1150	1160
11	1150	1150	1150	1150	1150	1150	1150	1160	1170
11	1160	1160	1160	1160	1160	1160	1160	1170	1180
11	1170	1170	1170	1170	1170	1170	1170	1180	1190
11	1180	1180	1180	1180	1180	1180	1180	1180	1190
11	1190	1190	1190	1190	1190	1190	1190	1190	1200
11	1200	1200	1200	1200	1200	1200	1200	1200	1200
12	900	910	930	940	950	960	970	980	1000

Grade	Baseline	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8
12	910	920	930	950	960	970	980	990	1000
12	920	930	940	950	960	980	990	1000	1010
12	930	940	950	960	970	980	1000	1010	1020
12	940	940	960	970	980	990	1000	1020	1030
12	950	950	960	980	990	1000	1010	1020	1040
12	960	960	970	980	1000	1010	1020	1030	1040
12	970	970	980	990	1000	1020	1030	1040	1050
12	980	980	990	1000	1010	1020	1030	1050	1060
12	990	990	990	1010	1020	1030	1040	1050	1070
12	1000	1000	1000	1010	1030	1040	1050	1060	1070
12	1010	1010	1010	1020	1030	1050	1060	1070	1080
12	1020	1020	1020	1030	1040	1050	1070	1080	1090
12	1030	1030	1030	1040	1050	1060	1070	1080	1100
12	1040	1040	1040	1040	1060	1070	1080	1090	1100
12	1050	1050	1050	1050	1060	1080	1090	1100	1110
12	1060	1060	1060	1060	1070	1080	1100	1110	1120
12	1070	1070	1070	1070	1080	1090	1100	1120	1130
12	1080	1080	1080	1080	1090	1100	1110	1120	1130
12	1090	1090	1090	1090	1100	1110	1120	1130	1140
12	1100	1100	1100	1100	1100	1110	1130	1140	1150
12	1110	1110	1110	1110	1110	1120	1130	1150	1160
12	1120	1120	1120	1120	1120	1130	1140	1150	1170
12	1130	1130	1130	1130	1130	1140	1150	1160	1170
12	1140	1140	1140	1140	1140	1140	1160	1170	1180
12	1150	1150	1150	1150	1150	1150	1160	1180	1190
12	1160	1160	1160	1160	1160	1160	1170	1180	1200
12	1170	1170	1170	1170	1170	1170	1180	1190	1200
12	1180	1180	1180	1180	1180	1180	1190	1200	1200
12	1190	1190	1190	1190	1190	1190	1200	1200	1200
12	1200	1200	1200	1200	1200	1200	1200	1200	1200