Appendix A to the 2019 Georgia Milestones Growth Model Report:

Growth Model Fit Plots

November 2019

1 Student Growth Percentile Fit Plots

A goodness of fit plot is produced for each unique analysis run in 2019. All fit plots will contain at least four panels. Each panel is a different depiction of the distribution of the Student Growth Percentiles (SGPs) calculated in that analysis relative to the students' prior or current achievement (i.e. the test scores used as the independent and dependent variables in the model).

The top panel is a mosaic plot that shows the percentage of students that fall into each prior proficiency level, and the location of the 10th through 90th quantiles of the SGP distribution represented as dashed white lines (with the exception of the solid white line for the median/50th percentile). Ideally the median SGP will be at or near 50 for all prior achievement level groups. The top panel is excluded when students' prior achievement level data is unavailable.

The "Ceiling/Floor Effects Test" panel helps identify problems in SGP estimation at the Highest and Lowest Obtainable/Observed Scale Scores (HOSS and LOSS). Appendix C provides a more detailed description of ceiling and floor effects and their causes. The table of values shows whether the current year scores at both extremes yield expected SGP values. The expectation is that the majority of SGPs for students scoring at or near the LOSS will be low (preferably less than 5 and not higher than 20), and that SGPs for students scoring at or near the HOSS will be high (preferably higher than 95 and not less than 80). Because few students may score *exactly* at the HOSS/LOSS, the top/bottom 50 students are selected and any student scoring within their range of scores are selected for inclusion in these tables. Consequently, there may be a range of scores at the HOSS/LOSS rather than a single score, and there may be more than 50 students included in the HOSS/LOSS row if the 50 students at the extremes only contain the single HOSS/LOSS score.

The "Student Growth Percentile Range" panel at bottom left shows the empirical distribution of SGPs given prior scale score deciles in the form of a 10 by 10 cell grid. Percentages of student growth percentiles between the 10th, 20th, 30th, 40th, 50th, 60th, 70th, 80th, and 90th percentiles were calculated based upon the empirical decile of the cohort's prior year scaled score distribution[1]. Deviations from perfect fit are indicated by red and blue shading. The further above 10 the darker the red, and the further below 10 the darker the blue. A more detailed discussion about the reasons for and implications of model misfit can be found in the "Goodness of Fit" section of the 2019 Georgia Student Growth Model report.

The bottom right panel of each plot is a Q-Q plot which compares the observed distribution of SGPs with the theoretical (uniform) distribution. An ideal plot here will show black step function lines that do not deviate from the ideal, red line which traces the 45 degree angle of perfect fit.

Goodness of fit plots for SIMEX measurement error corrected models are also presented here for each analysis. The expectations in the SGP distribution panels are different for these models, where lower attaining students will recieve higher SGPs and vice versa. This typically shifts the median lines in the mosaic plot panel and causes a red shift (more SGPs than expected) in the upper right and lower left quadrants of the "Student Growth Percentile Range" panel. See Appendix B of this report for a more detailed discussion of SIMEX models and description of their impact on SGP distributions.

[1]The total students in each analysis varies depending on grade and subject, and prior score deciles are based only on scores for students used in the SGP calculations.

2 End-of-Grade Analyses

2.1 ELA

Fig. A.1: Goodness of Fit Plot for 2019 Grade 4 ELA (Uncorrected - One Prior).

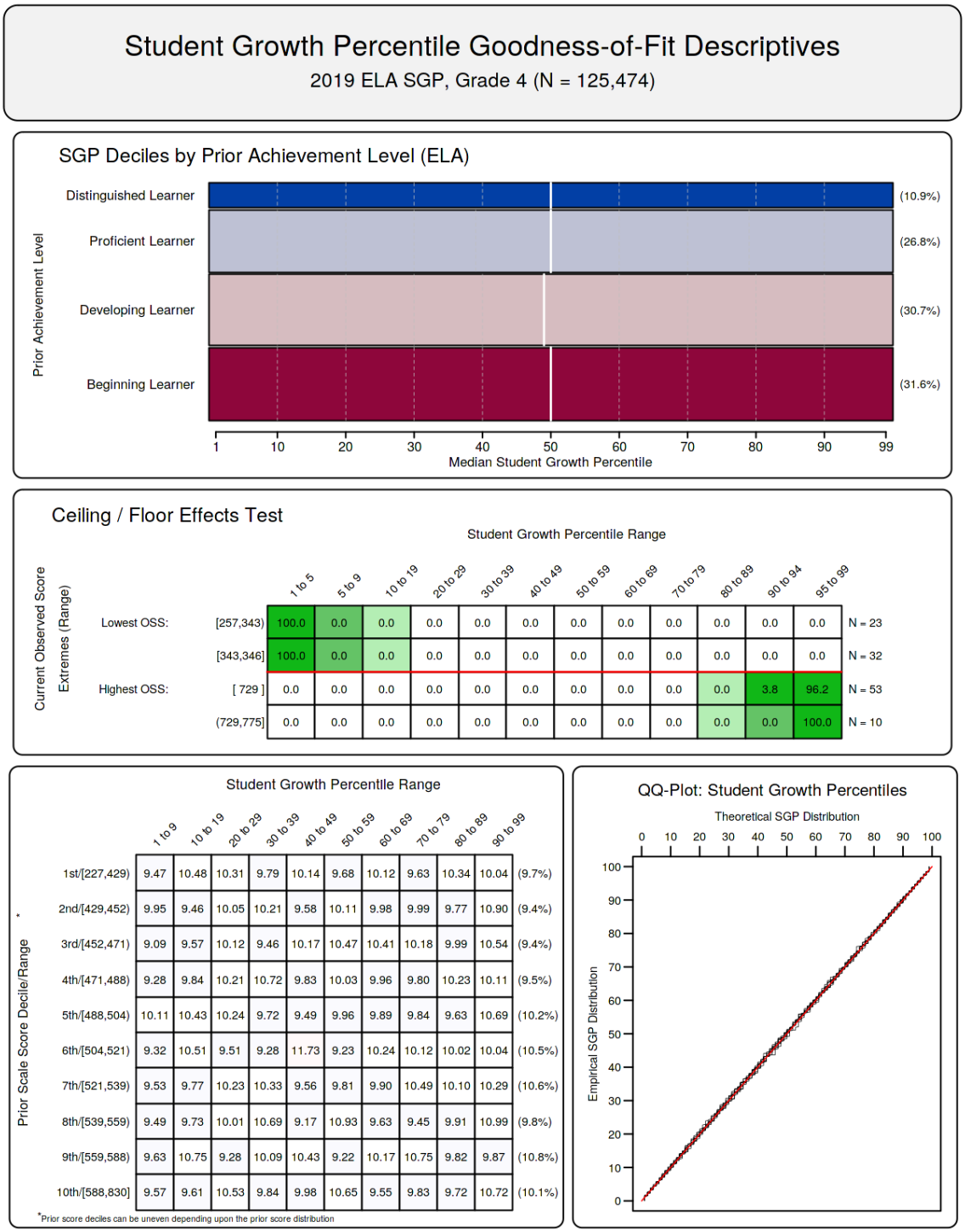
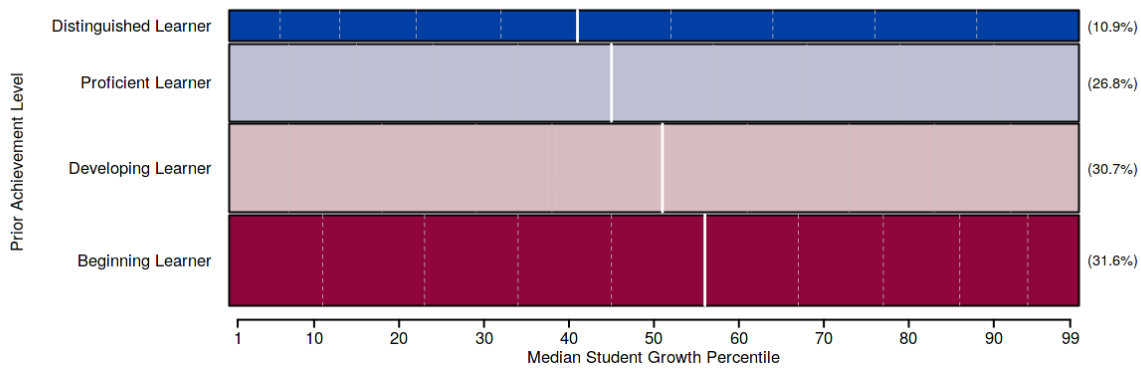


Fig. A.2: Goodness of Fit Plot for 2019 Grade 4 ELA (SIMEX Corrected - One Prior).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 ELA SGP SIMEX, Grade 4 (N = 125,474)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[257,343)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
	[343,346]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
Highest OSS:	[729]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	96.2	N = 53
	(729,775]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 10

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[227,429)	7.46	7.93	9.74	7.99	8.62	8.06	11.77	10.42	12.24	15.78	(9.7%)
2nd/[429,452)	9.21	7.71	8.54	8.61	9.96	7.29	9.68	11.57	12.27	15.14	(9.4%)
3rd/[452,471)	9.06	8.30	9.77	7.53	9.54	9.66	10.21	10.35	10.12	15.47	(9.4%)
4th/[471,488)	9.95	9.80	10.14	8.92	9.08	6.83	11.68	8.05	12.13	13.43	(9.5%)
5th/[488,504)	11.70	11.79	7.58	9.85	7.33	8.70	11.02	8.17	10.16	13.70	(10.2%)
6th/[504,521)	12.39	10.02	9.16	9.51	9.99	8.98	7.34	10.56	10.48	11.57	(10.5%)
7th/[521,539)	12.64	9.92	11.15	8.17	9.18	9.35	9.58	8.79	9.71	11.51	(10.6%)
8th/[539,559)	13.58	10.38	9.28	9.56	10.23	9.41	7.67	9.77	8.85	11.27	(9.8%)
9th/[559,588)	14.28	12.89	8.19	11.10	8.22	9.38	8.55	9.02	8.49	9.87	(10.8%)
10th/[588,830]	15.54	11.60	11.85	10.90	6.53	10.32	8.15	8.92	6.77	9.42	(10.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

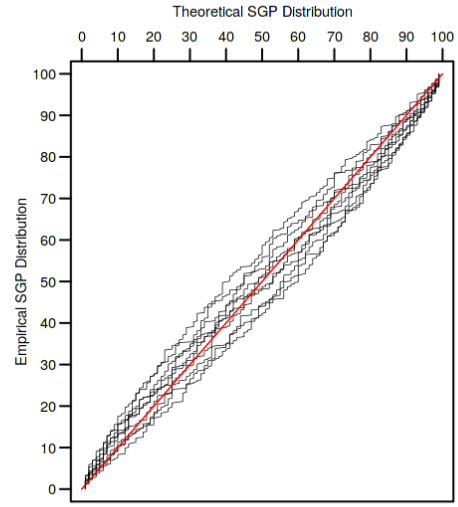
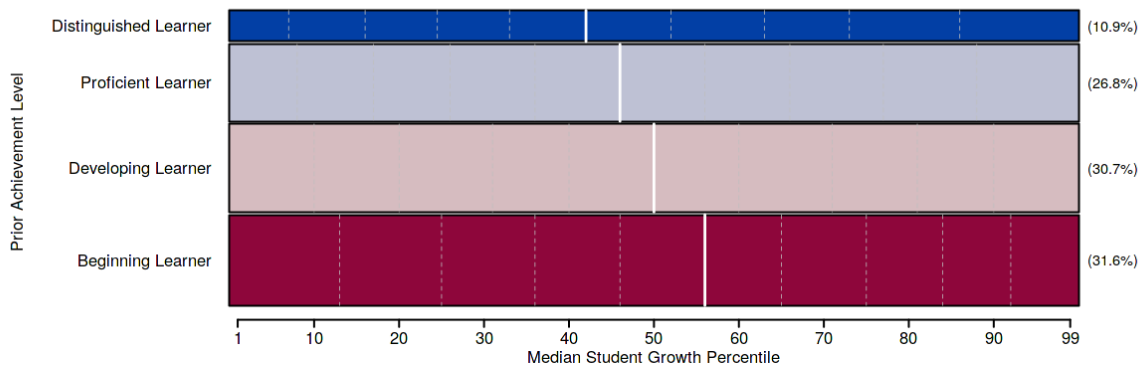


Fig. A.3: Goodness of Fit Plot for 2019 Grade 4 ELA (Ranked SIMEX - One Prior).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 ELA SGP SIMEX Ranked, Grade 4 (N = 125,474)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[257,343)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
	[343,346]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
Highest OSS:	[729]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	96.2	N = 53
	(729,775]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 10

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[227,429)	5.86	7.48	7.73	10.30	10.37	9.94	11.75	12.84	11.60	12.14	(9.7%)
2nd/[429,452)	7.11	7.70	9.42	9.68	10.12	9.72	10.21	11.83	10.22	13.99	(9.4%)
3rd/[452,471)	6.82	8.51	10.81	8.51	9.54	11.45	9.23	12.00	10.62	12.50	(9.4%)
4th/[471,488)	7.97	8.71	10.08	11.75	9.37	9.69	9.24	10.62	11.20	11.36	(9.5%)
5th/[488,504)	9.89	10.14	9.78	10.37	8.06	9.83	10.26	10.24	10.25	11.16	(10.2%)
6th/[504,521)	10.35	9.94	8.81	11.22	10.75	9.72	8.66	10.01	10.02	10.53	(10.5%)
7th/[521,539)	9.78	12.24	10.66	8.69	10.22	8.82	11.69	8.06	9.55	10.29	(10.6%)
8th/[539,559)	11.03	11.09	9.98	9.74	11.19	10.01	8.50	10.53	8.25	9.69	(9.8%)
9th/[559,588)	12.80	11.30	11.27	10.03	9.30	10.15	11.33	6.86	9.18	7.79	(10.8%)
10th/[588,830]	12.88	11.78	11.43	10.76	9.56	11.16	8.82	8.87	7.95	6.80	(10.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

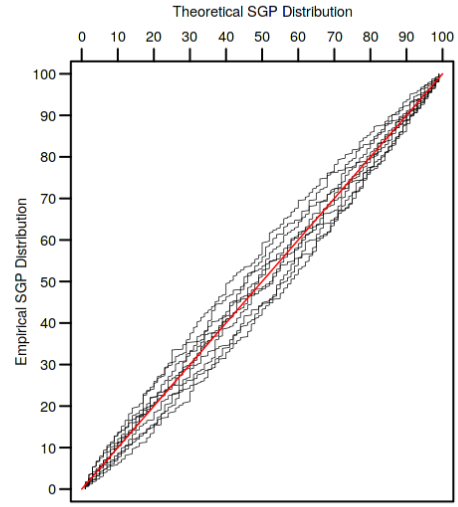
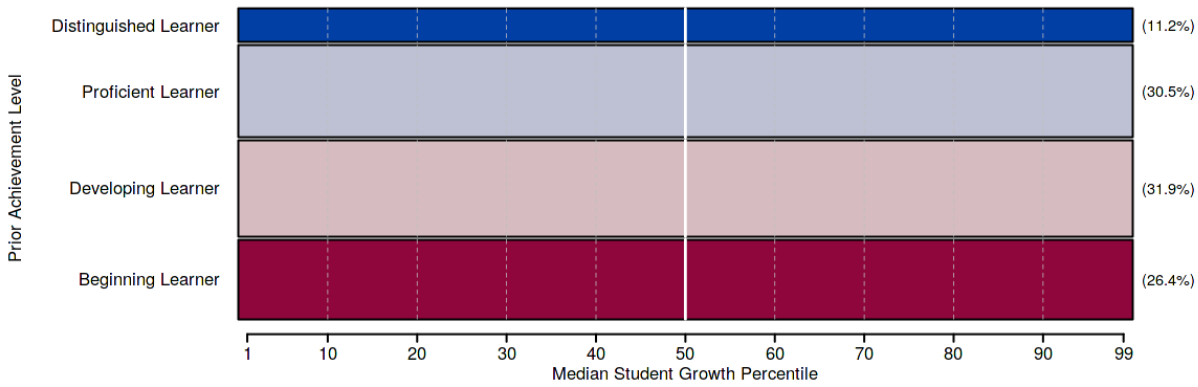


Fig. A.4: Goodness of Fit Plot for 2019 Grade 5 ELA (Uncorrected - Two Priors).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 ELA SGP, Grade 5 (N = 128,855)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[293,358)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 34
	[358]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 54
Highest OSS:	[721]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	88.5	N = 96
	(721,760]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 35

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[258,440)	9.39	10.12	10.09	10.33	9.87	9.72	9.80	9.83	10.08	10.77	(9.7%)
2nd/[440,463)	9.58	9.86	9.69	9.63	9.57	10.35	9.97	10.14	10.43	10.79	(9.7%)
3rd/[463,481)	9.41	9.97	10.03	10.14	10.21	9.65	10.30	9.96	9.81	10.52	(9.7%)
4th/[481,496)	9.84	10.09	10.26	10.02	9.84	9.72	9.98	9.88	9.89	10.47	(10.7%)
5th/[496,510)	9.27	9.83	9.74	10.09	9.69	10.40	9.59	10.14	10.33	10.92	(9.8%)
6th/[510,525)	9.51	9.82	9.93	9.74	10.58	9.71	10.20	10.25	9.85	10.41	(8.6%)
7th/[525,540)	9.75	10.28	9.85	9.91	9.74	10.09	9.81	9.85	9.95	10.76	(11.6%)
8th/[540,554)	8.93	9.81	9.94	10.18	10.17	9.80	10.39	10.12	10.33	10.34	(8.9%)
9th/[554,576)	9.75	9.68	9.96	9.54	10.02	10.14	10.19	9.88	10.34	10.51	(10.1%)
10th/[576,775]	9.45	10.18	9.99	10.16	10.01	10.04	9.69	10.18	9.64	10.66	(11.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

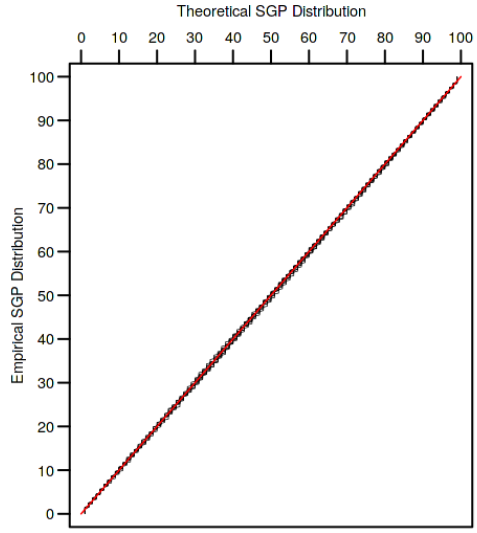


Fig. A.5: Goodness of Fit Plot for 2019 Grade 5 ELA (SIMEX Corrected - Two Priors).

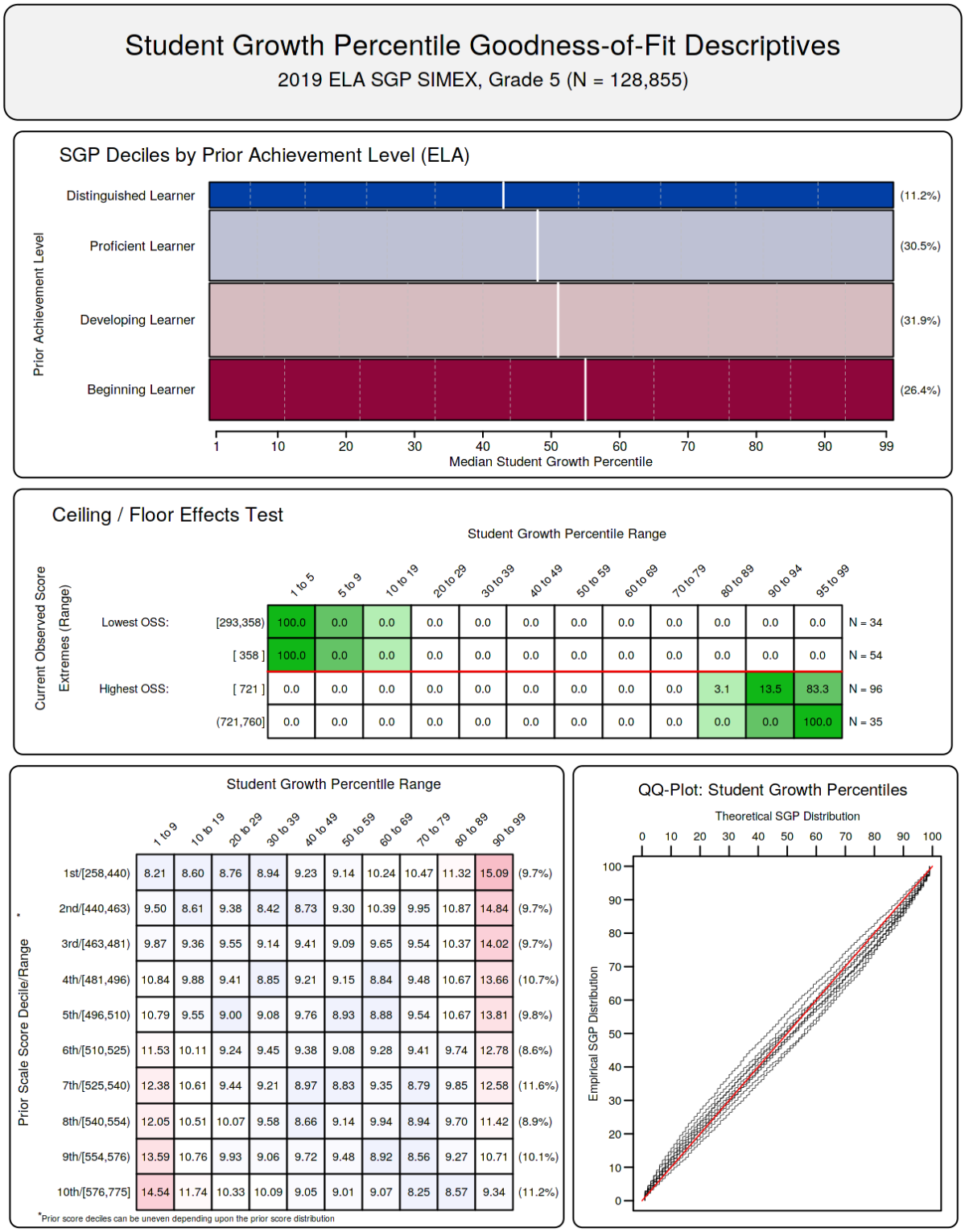
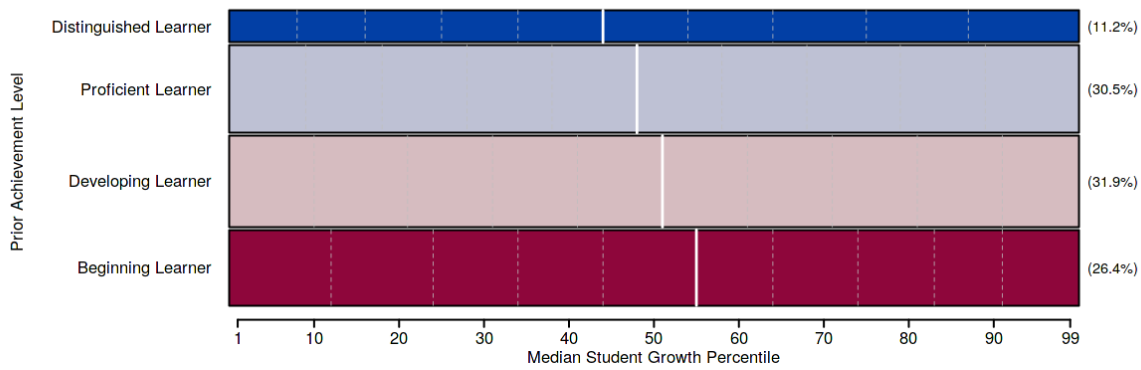


Fig. A.6: Goodness of Fit Plot for 2019 Grade 5 ELA (Ranked SIMEX - Two Priors).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 ELA SGP SIMEX Ranked, Grade 5 (N = 128,855)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[293,358)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 34
	[358]	88.9	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 54
Highest OSS:	[721]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	18.8	75.0	N = 96
	(721,760]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 35

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[258,440)	6.75	8.36	9.05	9.66	9.91	9.97	10.95	11.66	11.02	12.66	(9.7%)
2nd/[440,463)	8.02	8.37	9.46	9.58	9.23	10.17	10.85	10.45	11.73	12.15	(9.7%)
3rd/[463,481)	8.12	9.25	9.78	10.00	10.18	9.75	10.53	9.77	10.99	11.65	(9.7%)
4th/[481,496)	8.92	9.74	9.70	10.28	9.57	9.81	9.76	10.22	10.70	11.30	(10.7%)
5th/[496,510)	9.20	9.10	9.52	9.94	10.43	9.88	9.38	10.18	10.78	11.61	(9.8%)
6th/[510,525)	9.67	10.03	9.68	9.99	10.33	9.95	9.84	10.27	9.48	10.75	(8.6%)
7th/[525,540)	10.20	10.85	9.89	10.01	9.66	9.95	9.19	10.00	9.59	10.66	(11.6%)
8th/[540,554)	10.05	10.39	10.54	10.02	9.86	9.85	10.68	9.37	9.44	9.80	(8.9%)
9th/[554,576)	11.33	10.78	10.62	9.57	10.76	10.25	9.29	8.86	9.51	9.03	(10.1%)
10th/[576,775]	12.39	11.60	10.93	10.87	9.96	9.75	9.50	9.00	8.38	7.62	(11.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

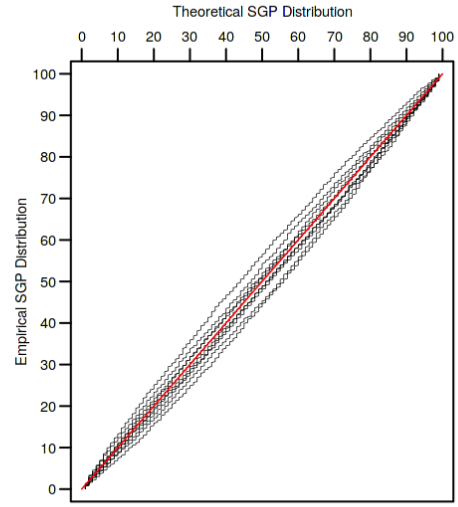
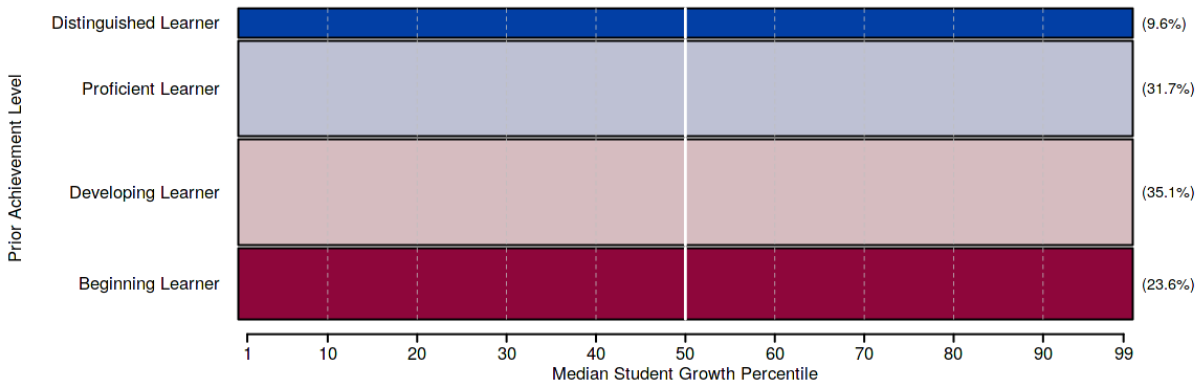


Fig. A.7: Goodness of Fit Plot for 2019 Grade 6 ELA (Uncorrected - Two Priors).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 ELA SGP, Grade 6 (N = 128,247)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[140,311)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 21
	[311,315]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[769]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	7.1	91.4	N = 70
	(769,820]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 29

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[255,443)	9.62	9.80	10.03	10.14	10.03	10.15	9.89	9.92	9.86	10.56	(10%)
2nd/[443,466)	9.64	10.22	9.61	9.81	9.97	9.85	10.05	9.79	10.11	10.95	(8.8%)
3rd/[466,485)	9.36	9.94	9.99	10.05	10.13	9.74	10.13	10.19	9.99	10.49	(10.3%)
4th/[485,499)	9.50	10.01	10.10	9.88	9.86	10.07	9.58	10.02	10.34	10.64	(9.2%)
5th/[499,514)	9.52	9.94	9.81	10.13	9.88	10.15	10.09	10.09	9.74	10.64	(9.9%)
6th/[514,529)	9.75	9.98	10.01	9.93	10.03	9.99	10.04	9.98	10.12	10.18	(10.6%)
7th/[529,545)	9.52	10.16	9.91	9.96	10.26	9.77	10.18	9.94	9.95	10.34	(10.8%)
8th/[545,558)	9.41	10.01	10.12	10.19	9.73	10.03	9.65	10.19	9.96	10.72	(8.6%)
9th/[558,584)	9.67	9.91	10.01	9.75	9.99	10.20	10.08	9.74	9.97	10.68	(11.2%)
10th/[584,760]	9.33	9.94	9.97	10.11	10.04	9.94	10.01	10.18	10.18	10.30	(10.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

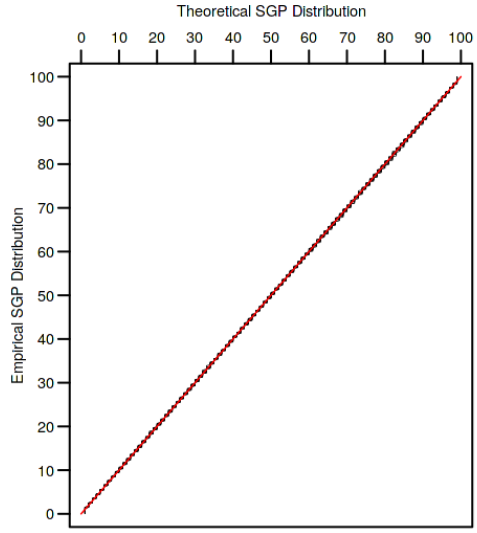
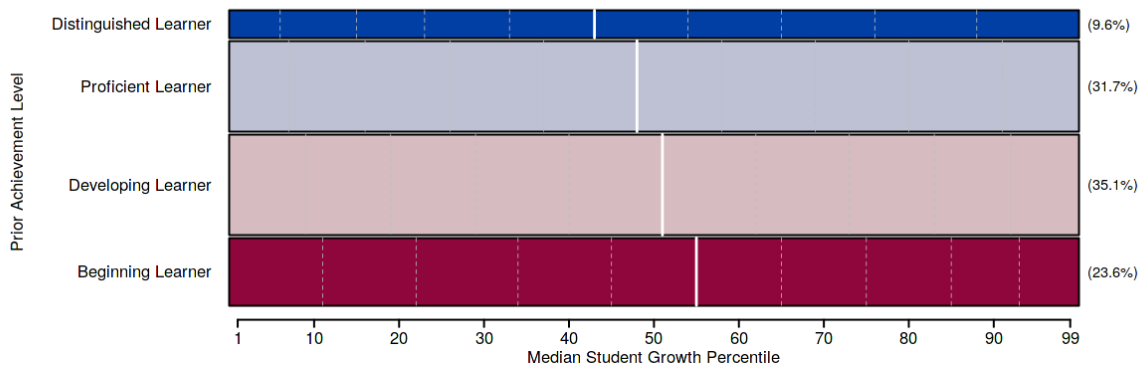


Fig. A.8: Goodness of Fit Plot for 2019 Grade 6 ELA (SIMEX Corrected - Two Priors).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 ELA SGP SIMEX, Grade 6 (N = 128,247)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[140,311)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 21
	[311,315]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[769]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	10.0	87.1	N = 70
	(769,820]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 29

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[255,443)	8.36	8.27	8.52	8.89	9.15	9.62	10.14	9.91	11.33	15.81	(10%)
2nd/[443,466)	9.32	9.31	8.25	9.24	9.24	9.73	9.24	10.54	10.44	14.67	(8.8%)
3rd/[466,485)	9.75	9.38	9.34	9.12	9.52	9.08	9.74	10.00	10.71	13.36	(10.3%)
4th/[485,499)	10.52	9.94	9.82	8.76	8.62	9.38	9.10	9.68	10.95	13.23	(9.2%)
5th/[499,514)	10.94	10.14	9.09	9.20	9.08	9.07	9.98	9.33	9.82	13.34	(9.9%)
6th/[514,529)	11.64	10.15	9.66	8.91	9.29	8.63	9.53	9.59	10.17	12.42	(10.6%)
7th/[529,545)	11.87	10.17	9.73	9.67	8.63	9.32	9.73	9.27	9.76	11.85	(10.8%)
8th/[545,558)	12.19	10.60	10.32	9.26	9.46	9.32	8.61	9.34	9.30	11.59	(8.6%)
9th/[558,584)	13.45	10.78	10.25	9.40	9.33	9.46	8.80	8.92	9.05	10.57	(11.2%)
10th/[584,760]	13.84	11.63	11.13	9.51	9.52	9.11	9.02	8.91	8.23	9.11	(10.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

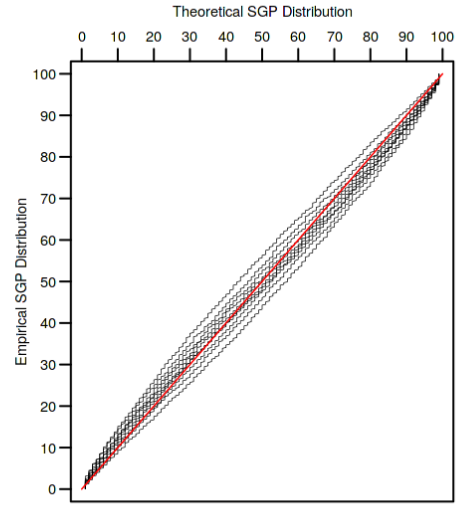
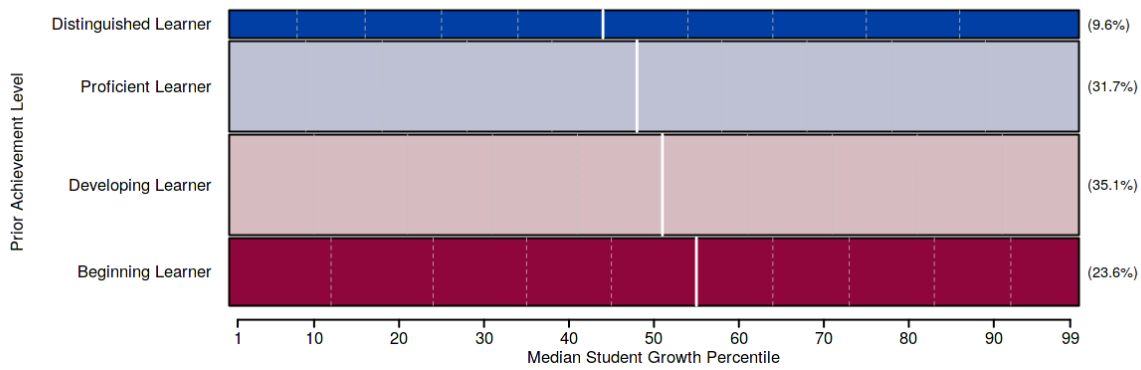


Fig. A.9: Goodness of Fit Plot for 2019 Grade 6 ELA (Ranked SIMEX - Two Priors).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 ELA SGP SIMEX Ranked, Grade 6 (N = 128,247)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[140,311)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 21
	[311,315]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[769]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.9	15.7	80.0	N = 70
	(769,820]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 29

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[255,443)	7.01	8.24	8.57	9.32	10.05	10.42	10.98	10.43	11.29	13.69	(10%)
2nd/[443,466)	7.73	9.08	8.77	10.06	9.73	10.55	10.07	10.75	10.82	12.44	(8.8%)
3rd/[466,485)	8.19	9.46	9.54	9.67	10.26	10.11	10.09	10.77	10.60	11.32	(10.3%)
4th/[485,499)	8.83	9.81	9.90	9.76	9.36	10.23	9.71	10.44	10.54	11.42	(9.2%)
5th/[499,514)	9.32	9.68	9.60	10.07	9.78	10.09	10.21	10.09	9.79	11.37	(9.9%)
6th/[514,529)	9.68	10.20	9.65	10.27	9.87	9.12	10.72	9.89	10.16	10.45	(10.6%)
7th/[529,545)	10.02	10.26	10.13	10.25	9.39	10.02	10.39	9.67	10.01	9.86	(10.8%)
8th/[545,558)	10.27	10.55	10.56	10.10	10.37	10.05	9.34	9.17	9.53	10.07	(8.6%)
9th/[558,584)	11.61	10.57	10.72	10.01	10.29	10.28	8.92	9.61	9.19	8.80	(11.2%)
10th/[584,760]	11.79	11.27	11.58	10.70	10.28	9.74	9.56	9.42	8.04	7.62	(10.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

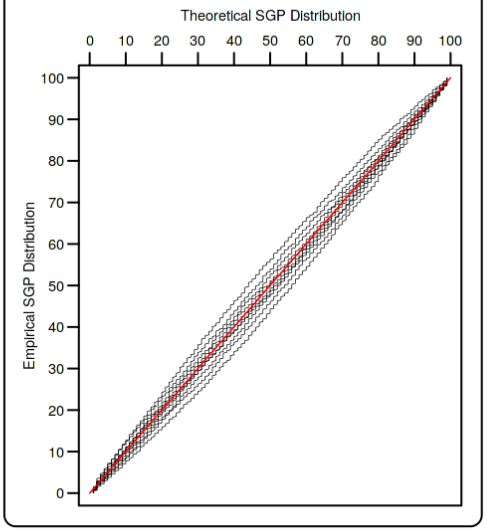


Fig. A.10: Goodness of Fit Plot for 2019 Grade 7 ELA (Uncorrected - Two Priors).

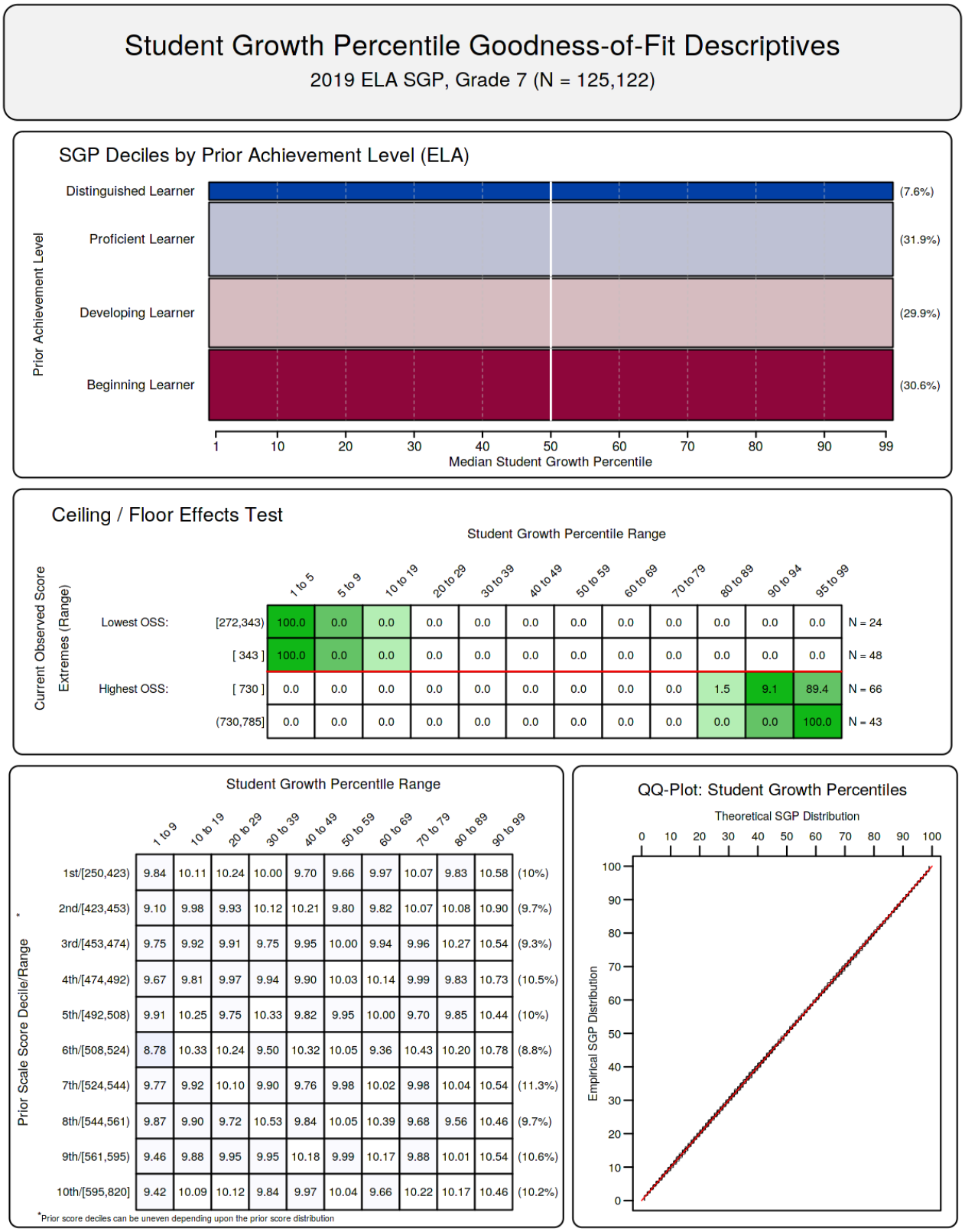


Fig. A.11: Goodness of Fit Plot for 2019 Grade 7 ELA (SIMEX Corrected - Two Priors).

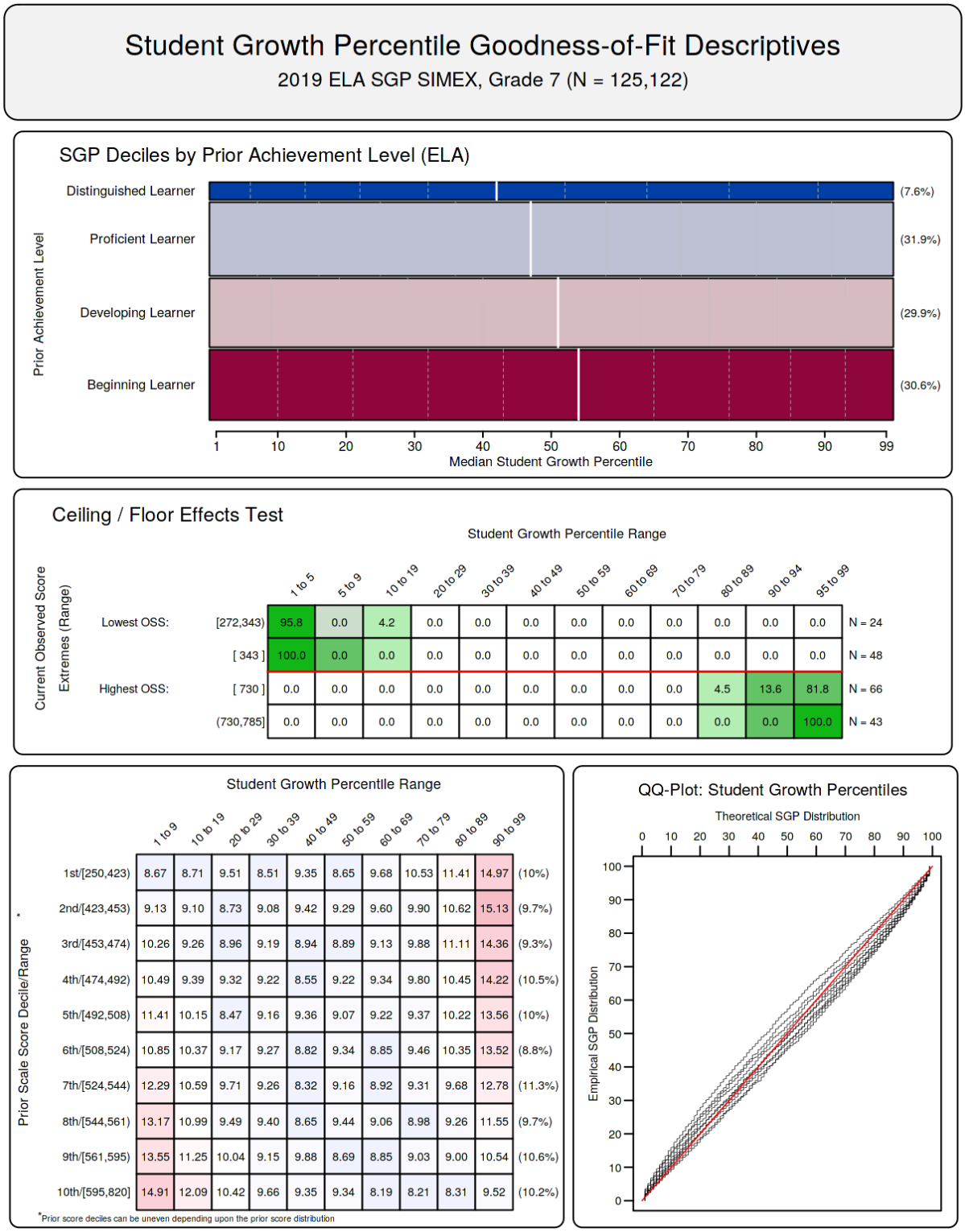
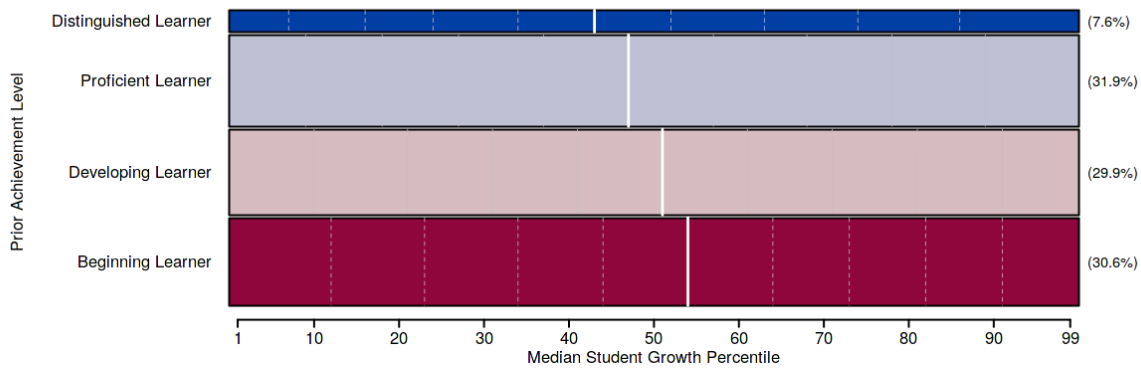


Fig. A.12: Goodness of Fit Plot for 2019 Grade 7 ELA (Ranked SIMEX - Two Priors).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 ELA SGP SIMEX Ranked, Grade 7 (N = 125,122)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[272,343)	91.7	4.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[343]	95.8	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 48
Highest OSS:	[730]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	13.6	77.3	N = 66
	(730,785]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 43

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[250,423)	7.05	8.37	9.22	9.93	10.38	9.68	10.61	11.17	11.08	12.51	(10%)
2nd/[423,453)	7.49	8.88	9.02	9.69	10.41	10.23	10.10	10.81	11.14	12.23	(9.7%)
3rd/[453,474)	8.03	9.60	9.12	9.79	10.08	9.54	10.25	10.75	11.21	11.62	(9.3%)
4th/[474,492)	8.46	9.42	9.54	10.28	9.32	9.69	10.82	9.98	10.94	11.54	(10.5%)
5th/[492,508)	9.27	10.42	8.91	9.78	10.28	9.68	10.09	10.11	10.38	11.08	(10%)
6th/[508,524)	8.89	10.22	9.75	10.10	9.51	10.57	9.54	10.25	10.02	11.14	(8.8%)
7th/[524,544)	10.11	10.27	10.75	9.36	9.66	9.98	9.96	10.05	9.36	10.50	(11.3%)
8th/[544,561)	11.27	10.53	10.58	10.19	9.13	10.31	9.93	9.42	9.17	9.47	(9.7%)
9th/[561,595)	11.42	10.83	10.68	10.65	10.34	9.52	9.77	9.18	9.03	8.57	(10.6%)
10th/[595,820]	12.22	11.71	11.43	10.72	10.34	10.04	9.16	8.42	8.39	7.56	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

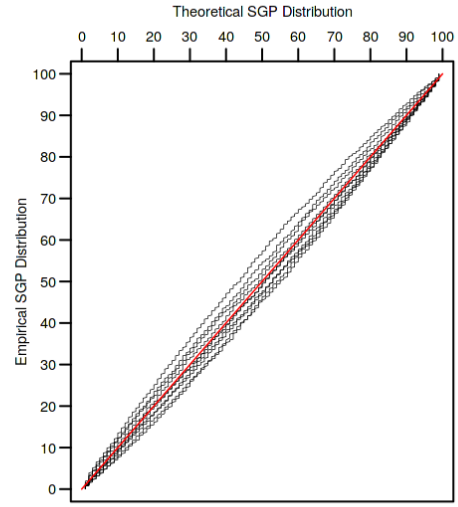
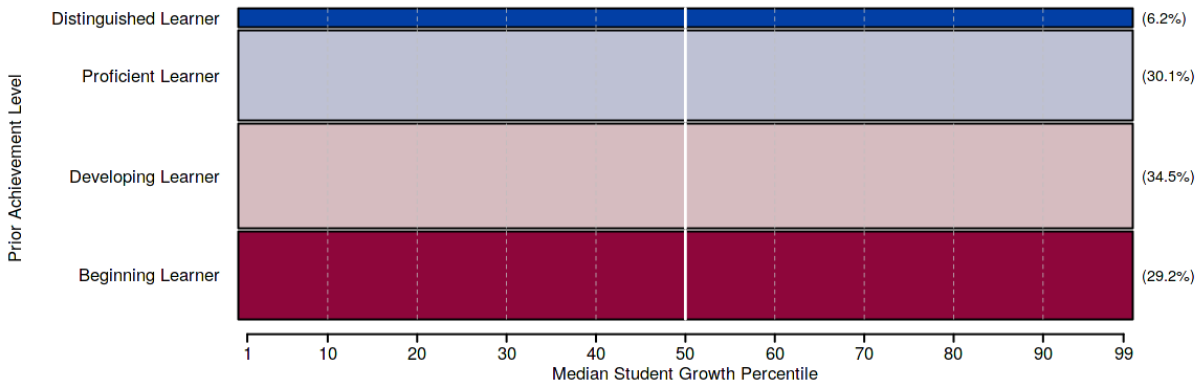


Fig. A.13: Goodness of Fit Plot for 2019 Grade 8 ELA (Uncorrected - Two Priors).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 ELA SGP, Grade 8 (N = 116,984)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[302,360)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 36
	[360,362]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 45
Highest OSS:	[713]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	89.1	N = 92
	(713,730]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 48

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[228,432)	10.43	10.21	10.05	9.56	10.00	9.96	9.84	9.42	9.90	10.64	(9%)
2nd/[432,458)	9.27	9.92	9.88	10.12	10.04	10.09	10.02	10.45	9.75	10.46	(9.7%)
3rd/[458,478)	9.39	9.93	9.91	10.22	9.71	9.70	10.00	9.92	10.44	10.79	(10.5%)
4th/[478,493)	9.54	10.03	10.28	9.82	10.20	10.12	10.08	9.70	9.86	10.36	(9.3%)
5th/[493,508)	9.55	10.24	9.60	9.99	9.96	10.08	9.69	10.09	10.06	10.74	(10.3%)
6th/[508,524)	9.86	9.54	10.24	9.96	10.20	9.82	10.37	9.75	9.92	10.35	(11.2%)
7th/[524,536)	9.74	10.14	10.12	10.00	9.63	9.75	9.93	10.49	9.79	10.40	(9.9%)
8th/[536,553)	9.04	9.91	9.78	9.92	10.36	10.41	9.79	10.03	10.04	10.74	(8.7%)
9th/[553,575)	9.81	10.24	9.83	10.31	9.99	9.84	10.11	9.81	9.53	10.54	(9.6%)
10th/[575,785]	9.50	9.92	10.27	9.89	9.95	10.03	9.99	9.97	10.18	10.31	(11.9%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

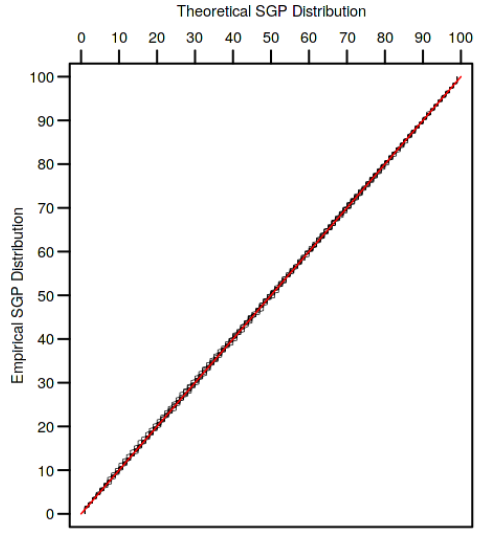


Fig. A.14: Goodness of Fit Plot for 2019 Grade 8 ELA (SIMEX Corrected - Two Priors).

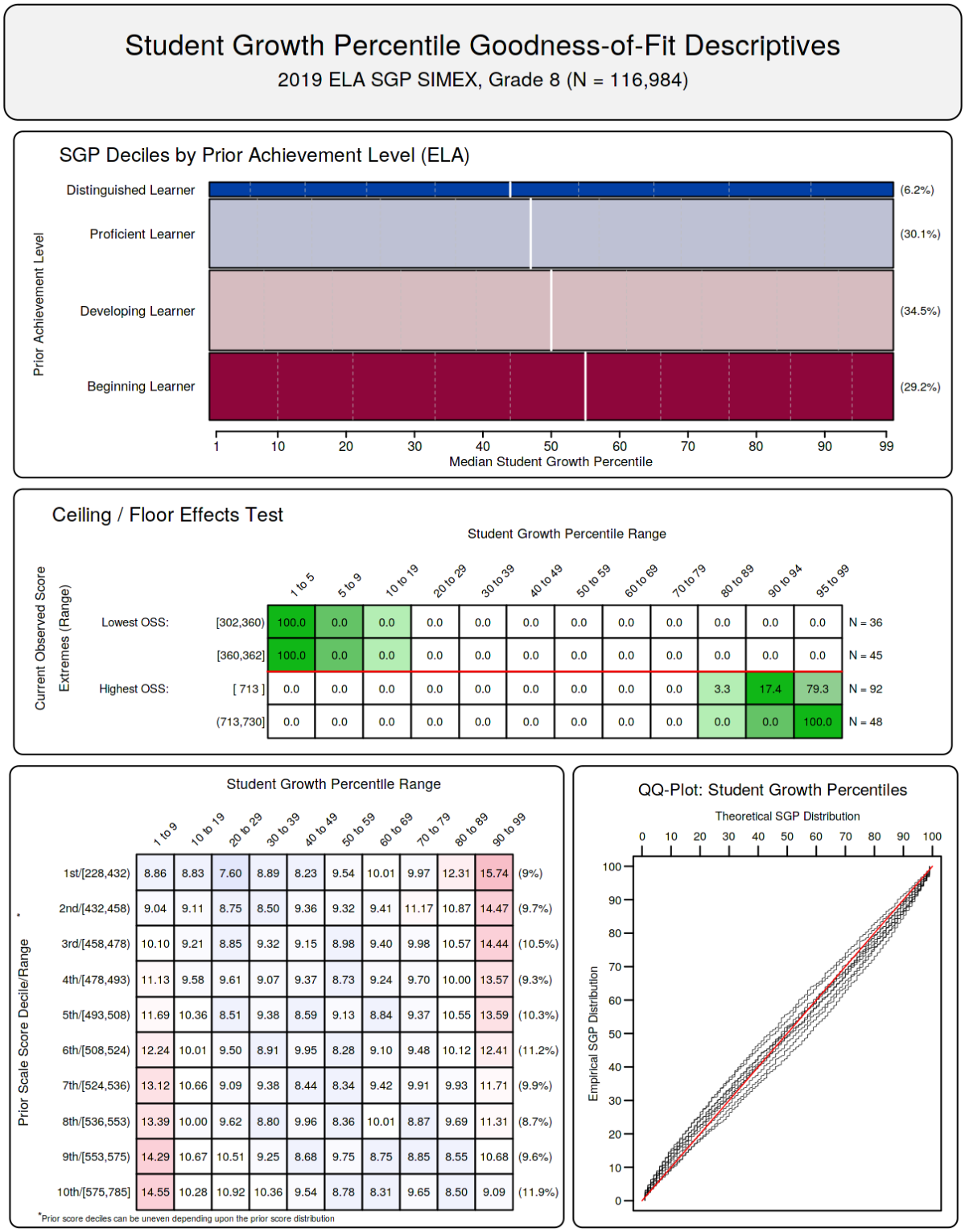
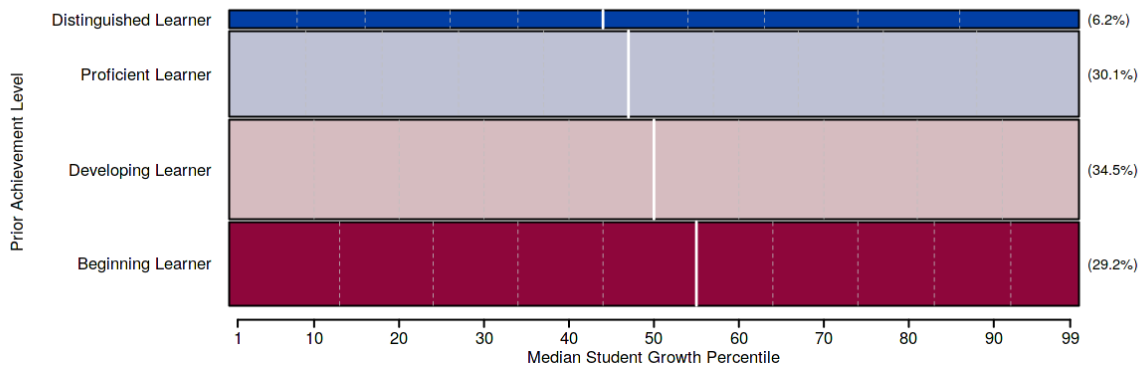


Fig. A.15: Goodness of Fit Plot for 2019 Grade 8 ELA (Ranked SIMEX - Two Priors).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 ELA SGP SIMEX Ranked, Grade 8 (N = 116,984)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

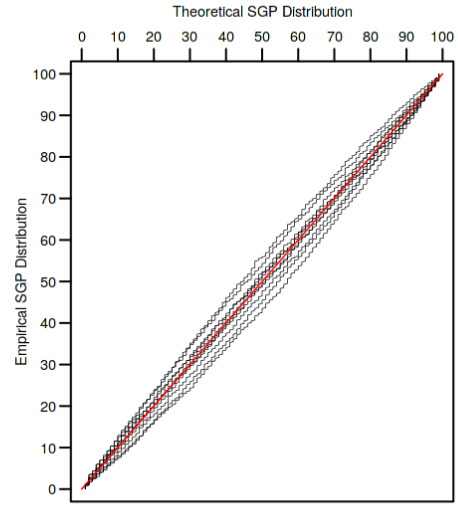
Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[302,360)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 36
	[360,362]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 45
Highest OSS:	[713]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	18.5	76.1	N = 92
	(713,730]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 48

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[228,432)	6.94	8.77	7.83	9.79	9.11	10.44	10.99	10.94	12.02	13.17	(9%)
2nd/[432,458)	7.32	8.32	9.58	9.45	9.88	10.62	10.17	11.61	10.96	12.08	(9.7%)
3rd/[458,478)	7.94	9.53	9.44	9.79	9.72	9.61	10.38	10.57	10.77	12.25	(10.5%)
4th/[478,493)	8.76	9.91	10.19	9.70	10.06	9.63	10.50	9.68	10.06	11.51	(9.3%)
5th/[493,508)	9.68	9.93	9.70	9.67	9.52	9.99	9.94	10.01	9.77	11.79	(10.3%)
6th/[508,524)	9.88	9.77	10.33	9.92	10.58	9.80	9.52	9.68	10.08	10.44	(11.2%)
7th/[524,536)	10.39	10.47	10.07	10.22	9.66	9.70	9.26	11.04	9.32	9.88	(9.9%)
8th/[536,553)	10.37	10.25	10.44	9.79	10.88	9.67	10.29	9.07	9.85	9.40	(8.7%)
9th/[553,575)	11.54	11.07	11.26	10.10	9.42	10.94	9.05	9.31	8.57	8.74	(9.6%)
10th/[575,785]	11.67	11.28	11.01	11.04	10.56	9.54	9.83	9.17	8.25	7.66	(11.9%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles



2.2 Mathematics

Fig. A.16: Goodness of Fit Plot for 2019 Grade 4 Mathematics (Uncorrected - One Prior).

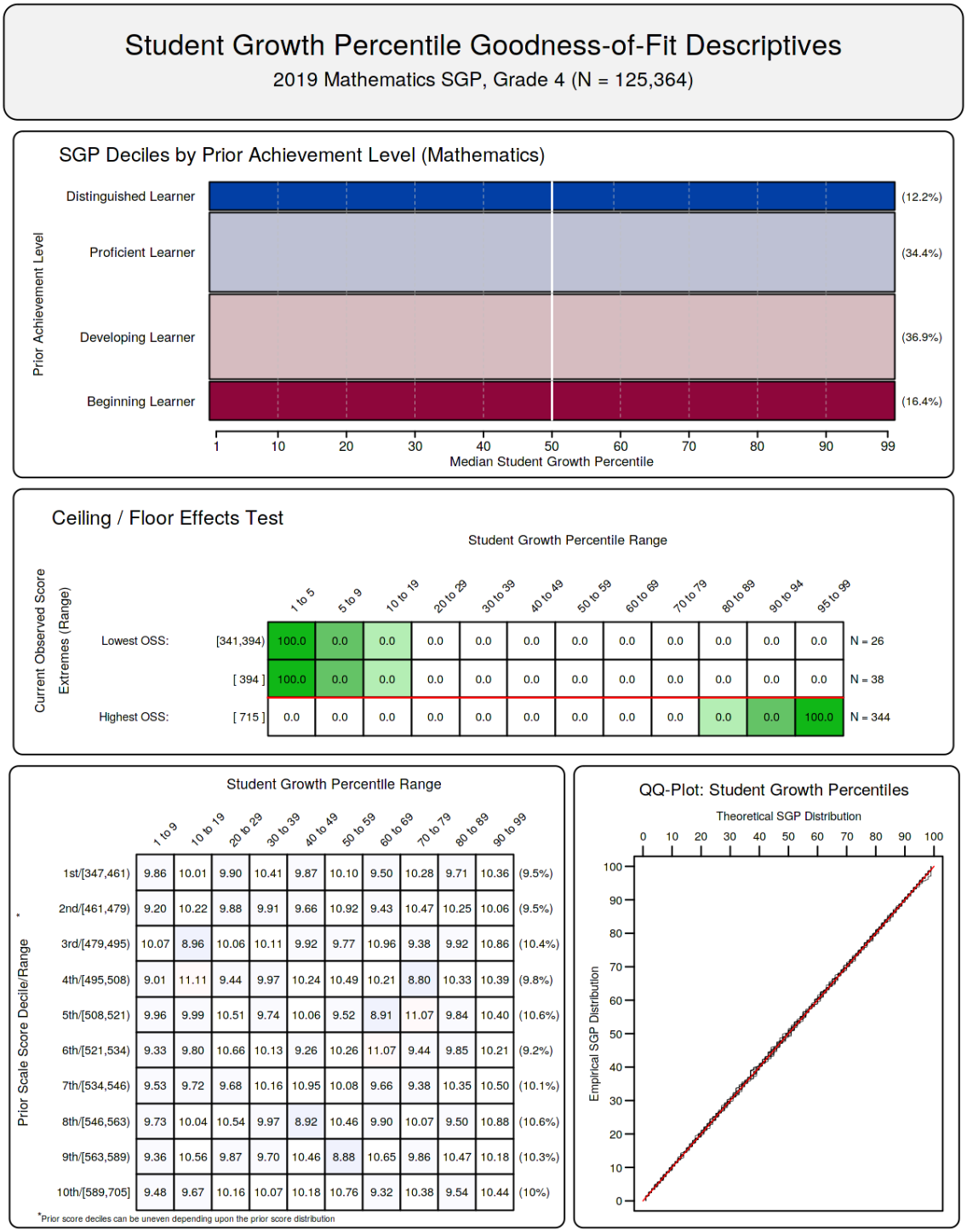


Fig. A.17: Goodness of Fit Plot for 2019 Grade 4 Mathematics (SIMEX Corrected - One Prior).

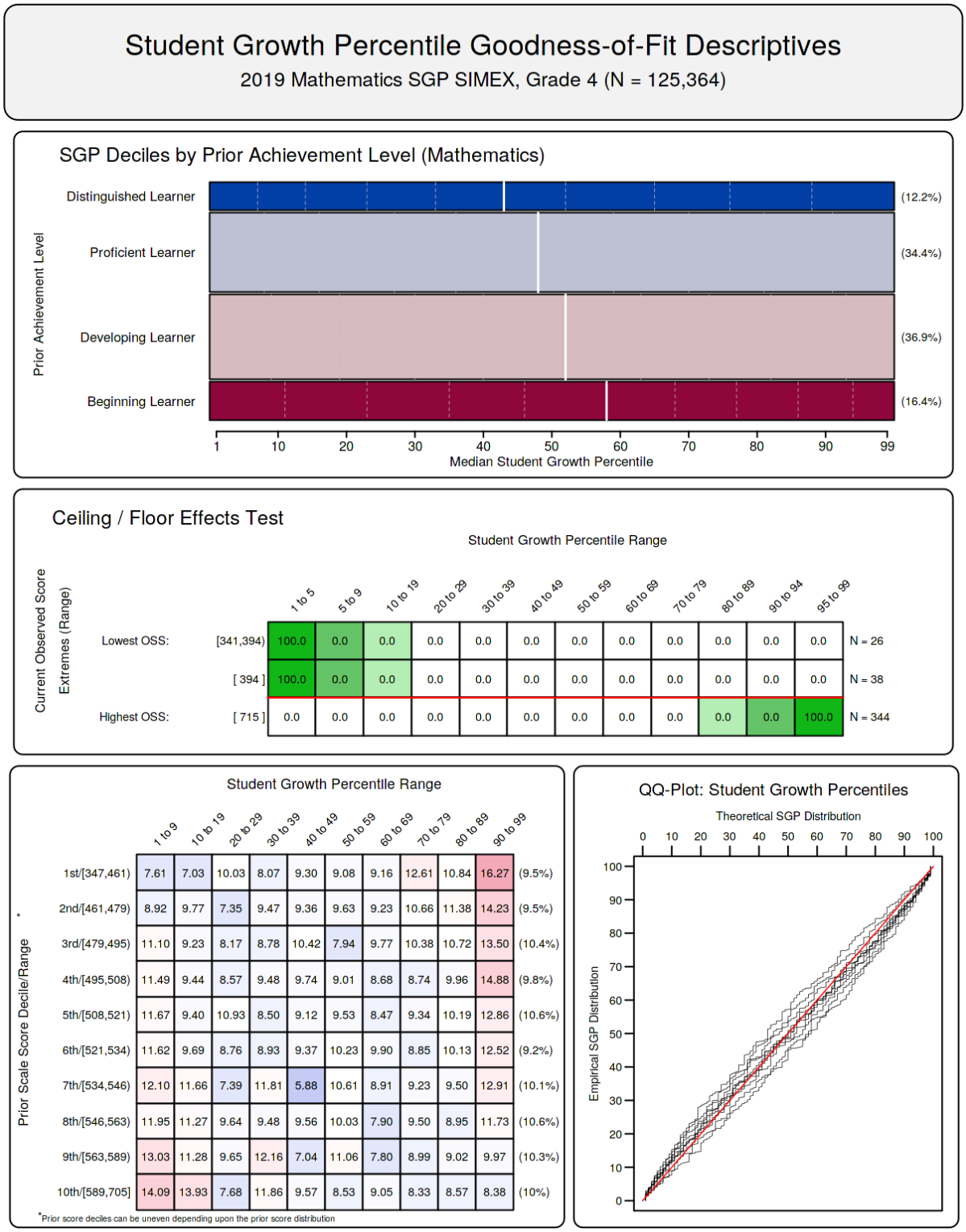


Fig. A.18: Goodness of Fit Plot for 2019 Grade 4 Mathematics (Ranked SIMEX - One Prior).

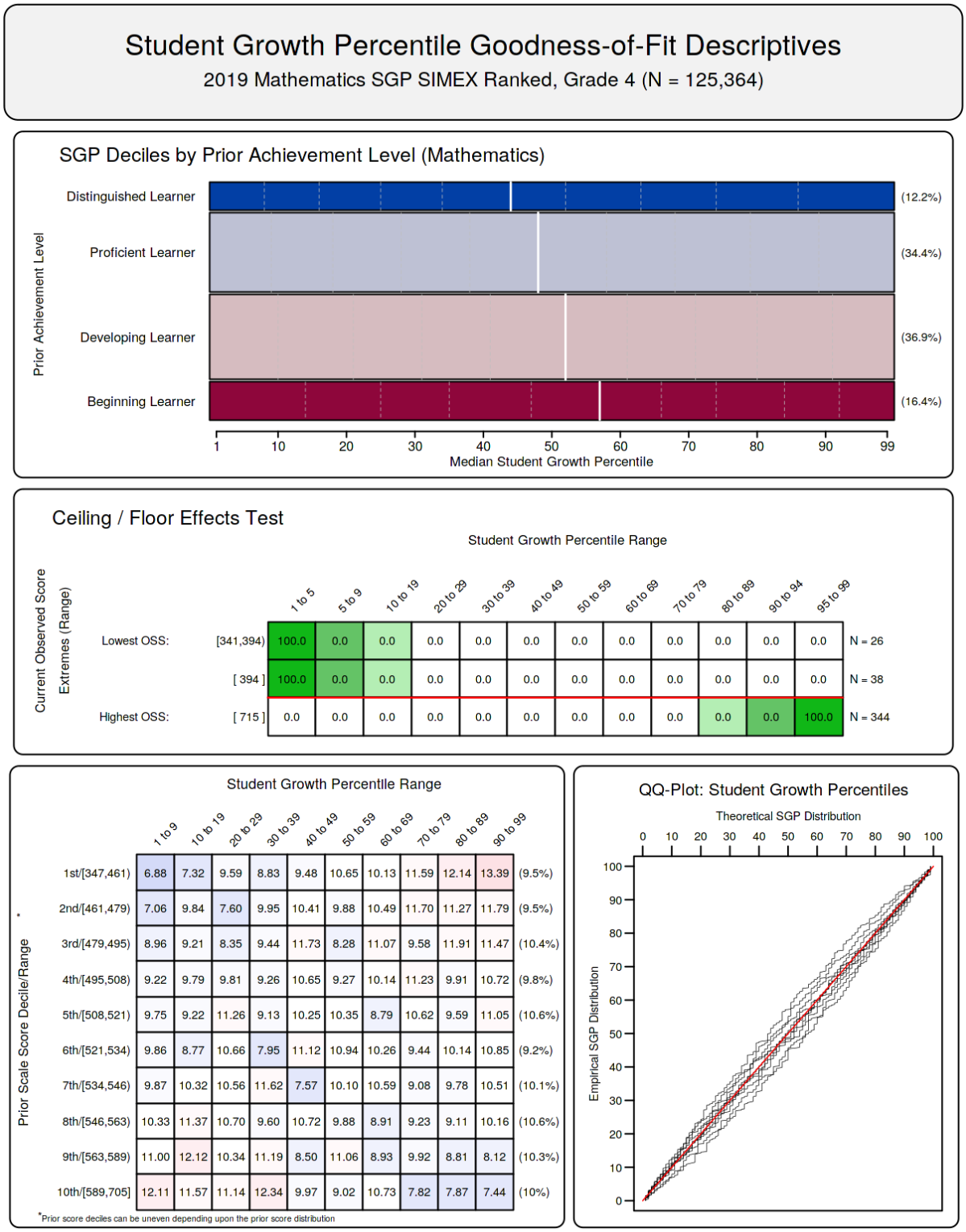
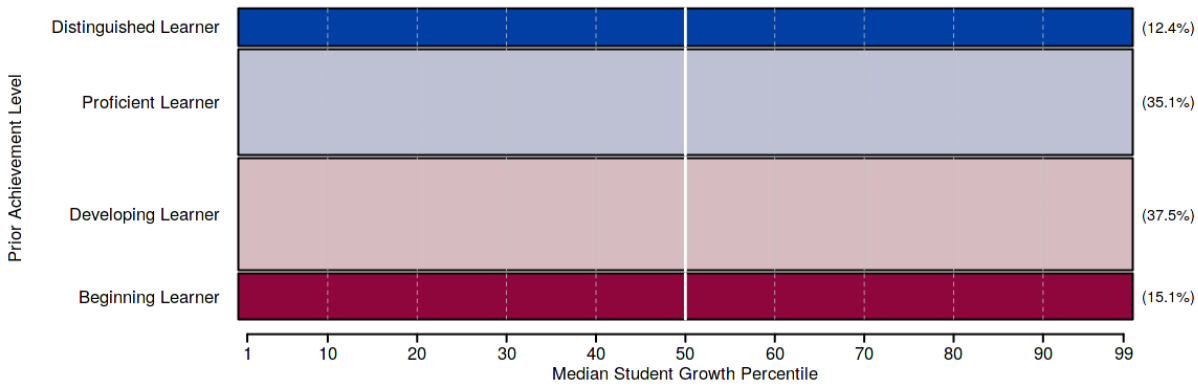


Fig. A.19: Goodness of Fit Plot for 2019 Grade 5 Mathematics (Uncorrected - Two Priors).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Mathematics SGP, Grade 5 (N = 128,757)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[352,388)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 40
	[388]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 44
Highest OSS:	[725]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 589

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[342,464)	9.65	10.00	9.99	9.87	9.89	10.21	10.01	9.94	9.77	10.68	(9.4%)
2nd/[464,483)	9.31	9.82	9.92	10.24	10.10	9.78	9.67	10.02	10.27	10.88	(9.9%)
3rd/[483,496)	9.51	10.28	9.95	9.56	9.80	9.88	10.37	10.11	9.85	10.70	(9.4%)
4th/[496,510)	9.52	9.93	9.96	10.34	9.91	10.18	9.60	9.57	10.13	10.88	(10.4%)
5th/[510,523)	9.45	10.02	10.04	9.90	10.34	9.68	10.02	10.46	9.74	10.34	(10.7%)
6th/[523,534)	9.79	9.86	9.94	9.52	9.67	9.92	10.81	9.90	10.22	10.36	(8.2%)
7th/[534,550)	9.17	9.93	9.98	10.16	9.83	10.49	9.57	10.07	9.96	10.83	(11.8%)
8th/[550,567)	9.90	10.01	9.67	10.17	10.11	9.63	9.85	9.55	10.32	10.79	(9.5%)
9th/[567,592)	9.34	10.00	10.28	9.98	10.13	10.05	10.12	10.00	9.67	10.43	(10.6%)
10th/[592,715]	9.37	9.98	9.88	9.92	9.87	10.02	10.12	10.01	9.71	11.13	(10%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

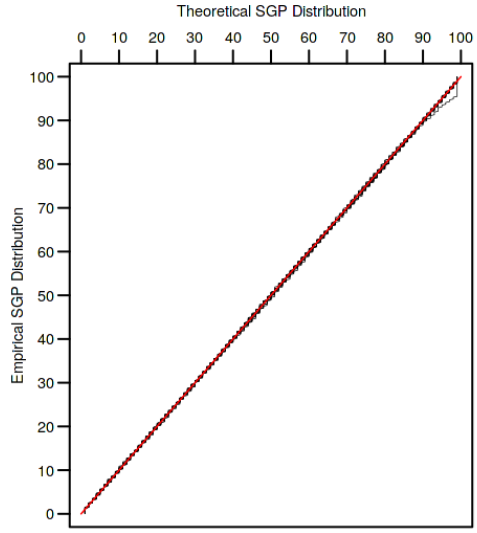


Fig. A.20: Goodness of Fit Plot for 2019 Grade 5 Mathematics (SIMEX Corrected - Two Priors).

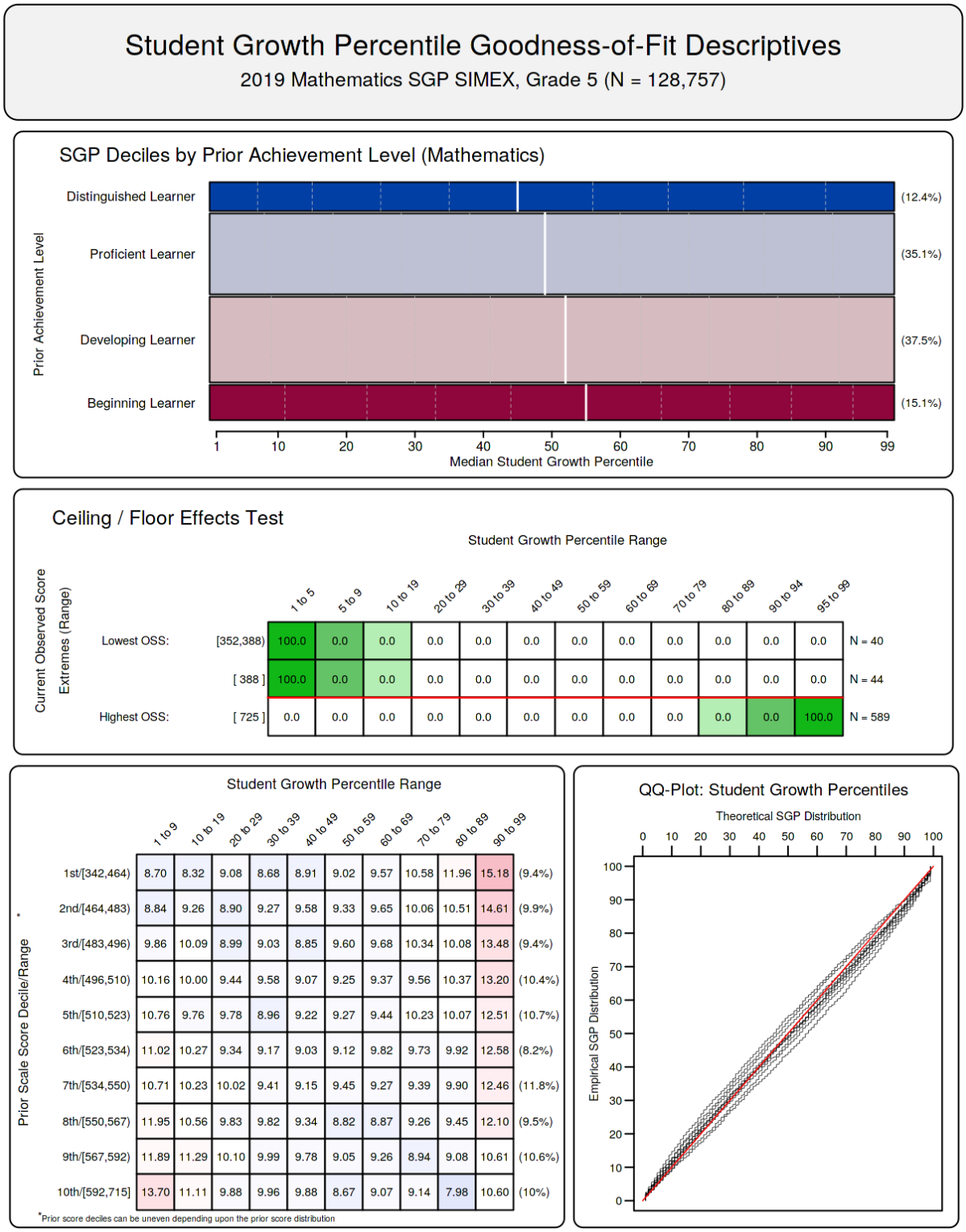


Fig. A.21: Goodness of Fit Plot for 2019 Grade 5 Mathematics (Ranked SIMEX - Two Priors).

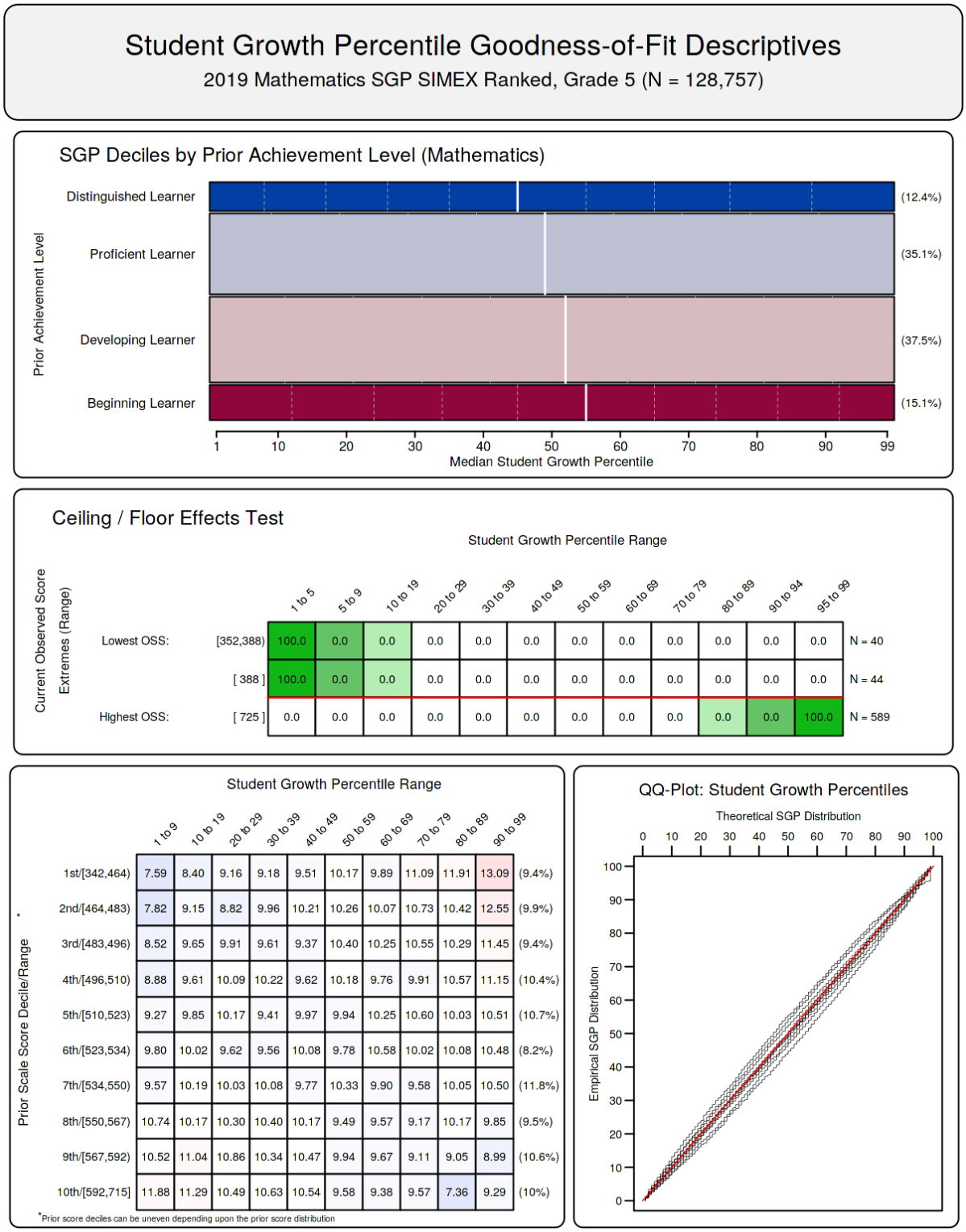


Fig. A.22: Goodness of Fit Plot for 2019 Grade 6 Mathematics (Uncorrected - Two Priors).

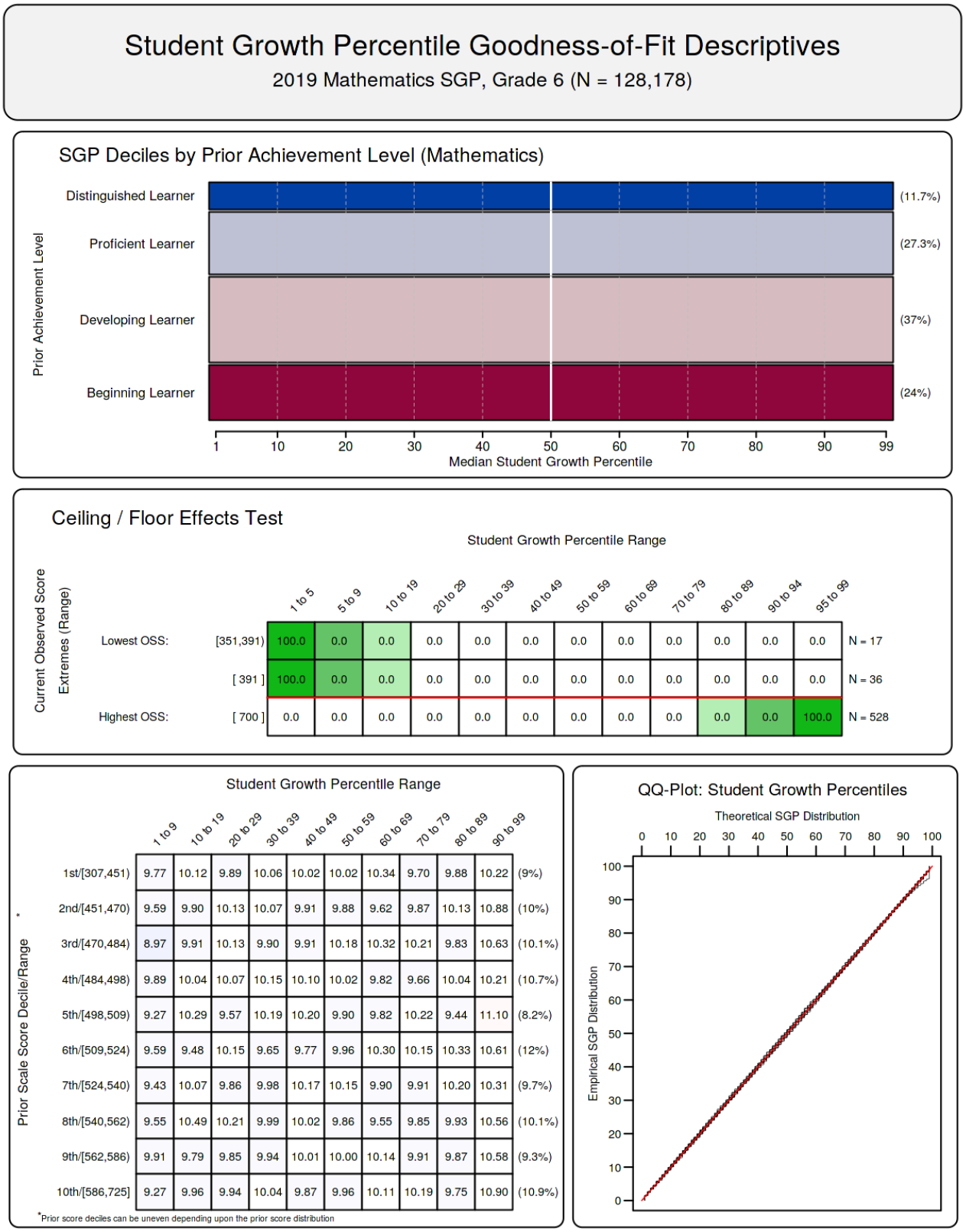


Fig. A.23: Goodness of Fit Plot for 2019 Grade 6 Mathematics (SIMEX Corrected - Two Priors).

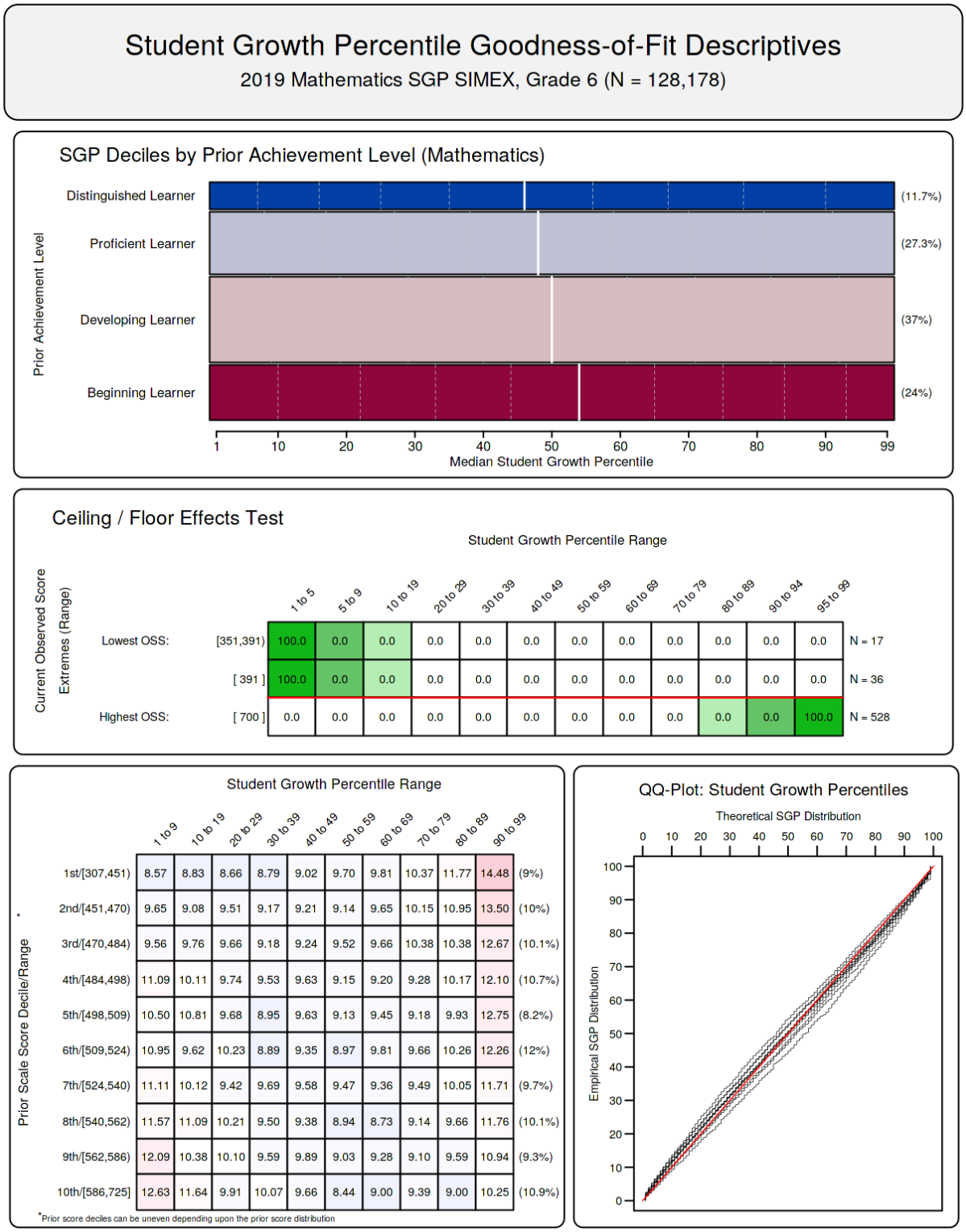
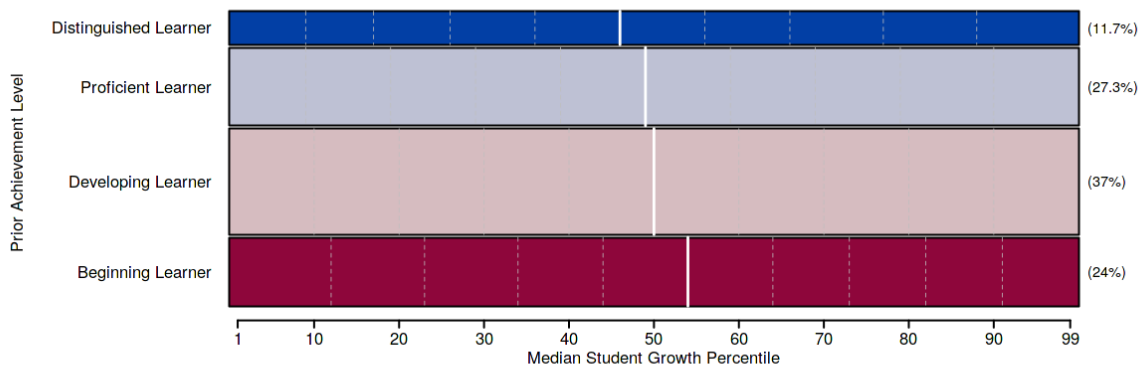


Fig. A.24: Goodness of Fit Plot for 2019 Grade 6 Mathematics (Ranked SIMEX - Two Priors).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Mathematics SGP SIMEX Ranked, Grade 6 (N = 128,178)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[351,391)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 17
	[391]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 36
Highest OSS:	[700]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 528

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[307,451)	7.54	8.45	9.24	8.93	9.62	10.39	10.31	11.25	12.18	12.10	(9%)
2nd/[451,470)	8.26	9.13	9.68	9.73	9.79	9.98	10.63	10.04	10.70	12.06	(10%)
3rd/[470,484)	8.44	9.63	9.67	9.89	9.58	10.62	10.73	10.16	10.24	11.04	(10.1%)
4th/[484,498)	9.71	9.86	9.99	10.18	10.07	9.96	9.73	10.26	9.95	10.29	(10.7%)
5th/[498,509)	9.22	10.40	9.81	9.86	10.22	9.88	10.03	9.80	9.88	10.91	(8.2%)
6th/[509,524)	9.65	9.45	10.26	9.71	9.77	9.81	10.38	10.38	10.28	10.32	(12%)
7th/[524,540)	9.88	9.86	9.87	10.16	9.96	10.38	9.94	9.88	9.91	10.15	(9.7%)
8th/[540,562)	10.09	11.31	10.10	10.18	9.96	9.73	9.19	9.82	9.31	10.30	(10.1%)
9th/[562,586)	10.96	10.24	10.35	9.78	10.60	10.01	9.93	9.26	9.41	9.47	(9.3%)
10th/[586,725]	11.12	11.49	10.81	10.16	10.26	9.42	9.69	9.50	8.66	8.90	(10.9%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

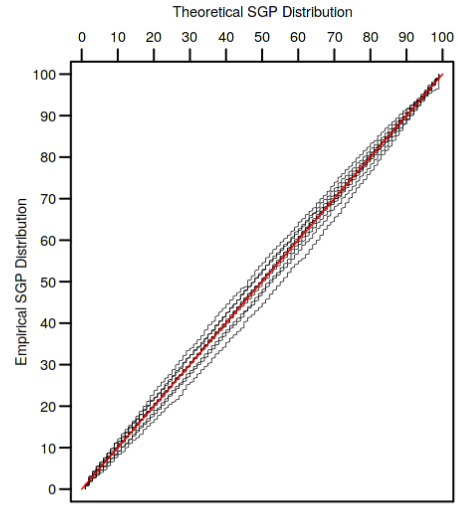


Fig. A.25: Goodness of Fit Plot for 2019 Grade 7 Mathematics (Uncorrected - Two Priors).

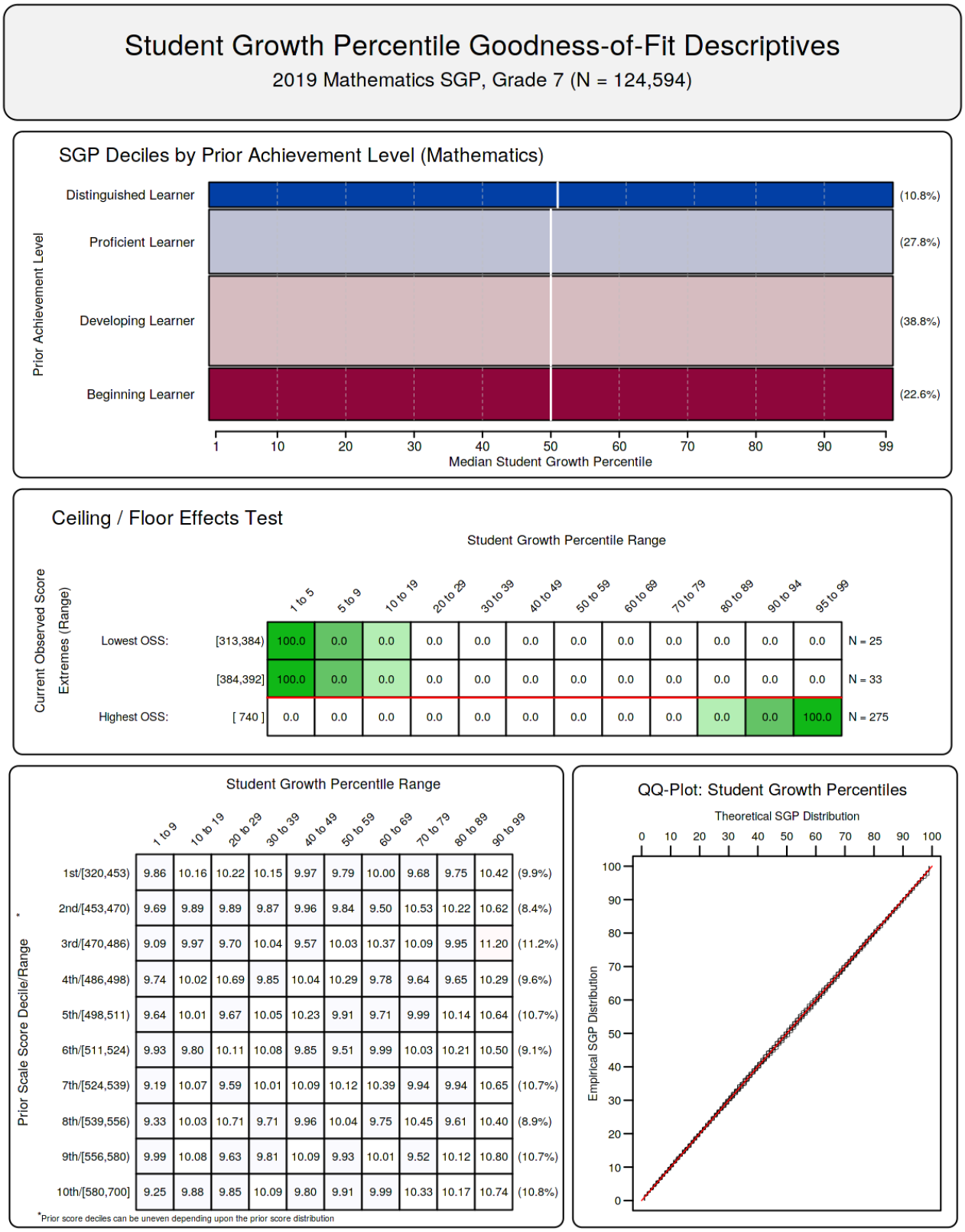


Fig. A.26: Goodness of Fit Plot for 2019 Grade 7 Mathematics (SIMEX Corrected - Two Priors).

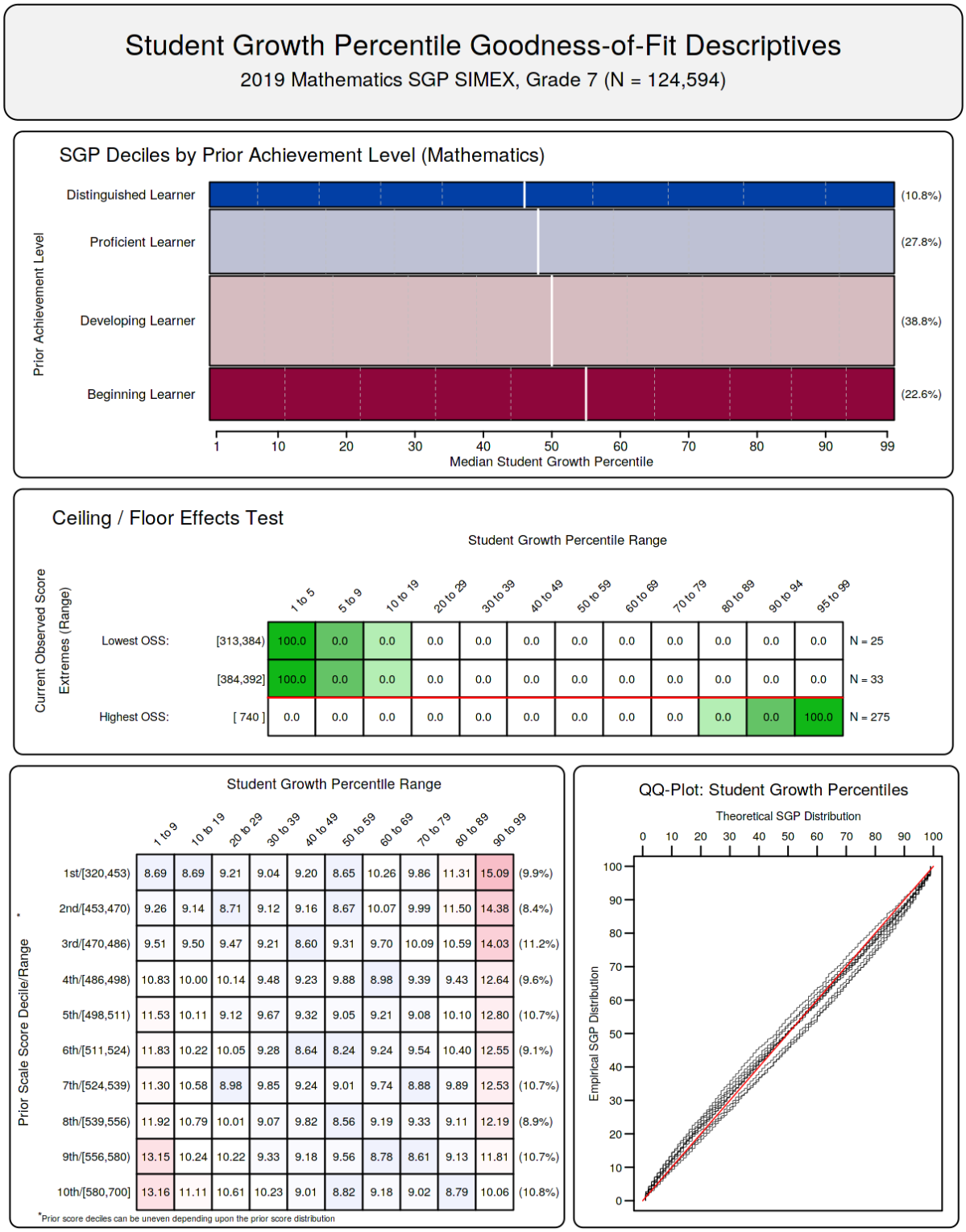


Fig. A.27: Goodness of Fit Plot for 2019 Grade 7 Mathematics (Ranked SIMEX - Two Priors).

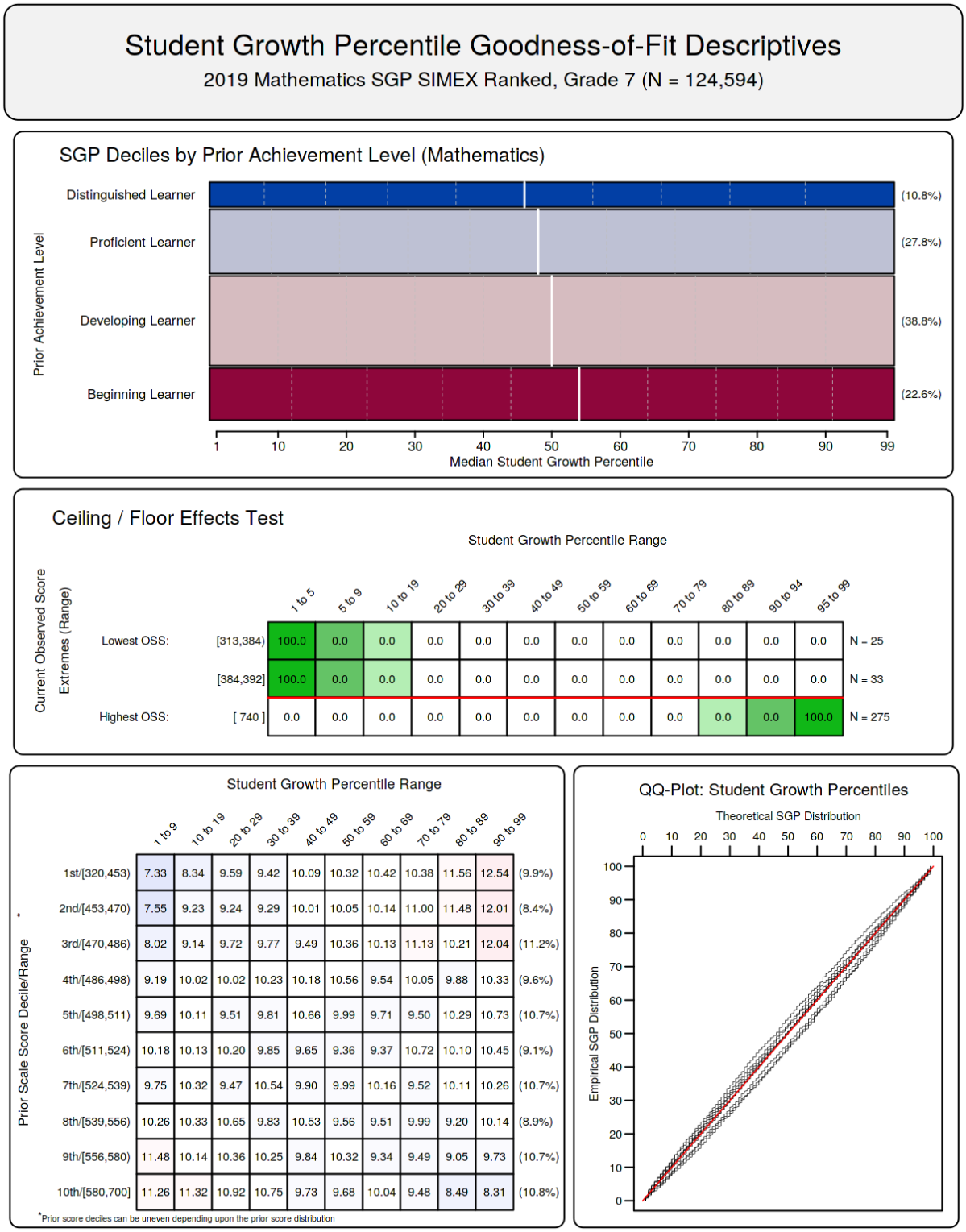
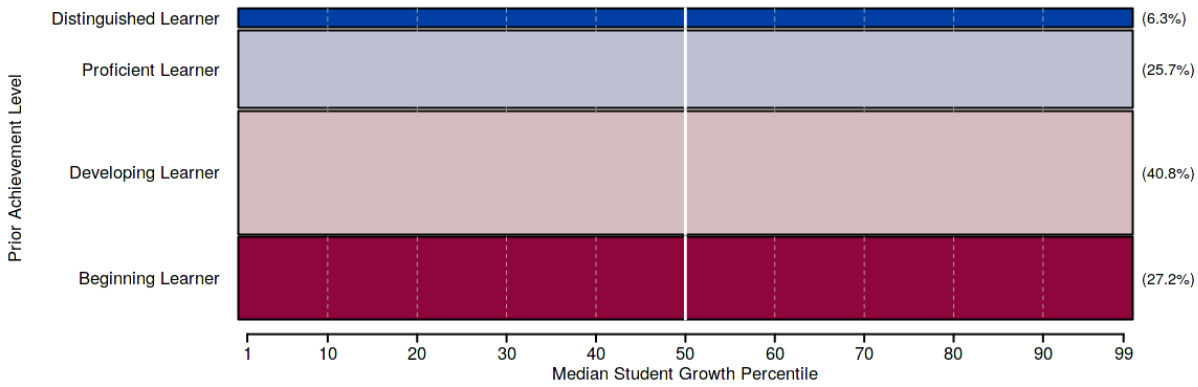


Fig. A.28: Goodness of Fit Plot for 2019 Grade 8 Mathematics (Uncorrected - Two Priors).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Mathematics SGP, Grade 8 (N = 96,323)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[344,380)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 34
	[380,388]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 38
Highest OSS:	[755]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 55

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[265,451)	9.86	10.17	9.99	9.96	9.94	10.08	9.85	10.29	9.82	10.05	(9.4%)
2nd/[451,465)	9.32	10.27	10.04	10.66	9.82	9.81	10.11	9.63	9.76	10.58	(9.5%)
3rd/[465,478)	9.57	9.65	10.37	9.69	10.07	9.50	9.89	10.07	10.43	10.76	(10.5%)
4th/[478,489)	9.81	10.03	9.70	9.76	9.71	10.56	9.94	9.99	9.76	10.74	(10.5%)
5th/[489,501)	9.83	9.89	9.66	10.23	10.16	9.66	10.07	10.00	10.08	10.43	(9.6%)
6th/[501,514)	9.28	10.23	10.62	9.90	9.95	9.92	9.92	9.88	9.92	10.37	(10.2%)
7th/[514,525)	9.71	9.90	9.49	9.98	9.91	10.02	9.81	10.25	9.82	11.12	(8.2%)
8th/[525,543)	9.53	10.00	10.04	10.03	10.08	9.97	9.92	9.60	10.25	10.57	(11.3%)
9th/[543,566)	9.68	9.90	9.91	9.67	9.79	9.76	10.50	10.27	10.09	10.42	(10.6%)
10th/[566,740]	9.39	10.15	9.95	10.24	9.92	10.02	9.91	9.92	9.95	10.55	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

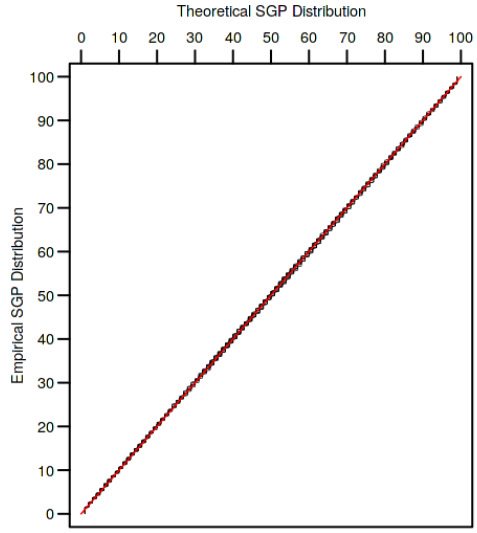


Fig. A.29: Goodness of Fit Plot for 2019 Grade 8 Mathematics (SIMEX Corrected - Two Priors).

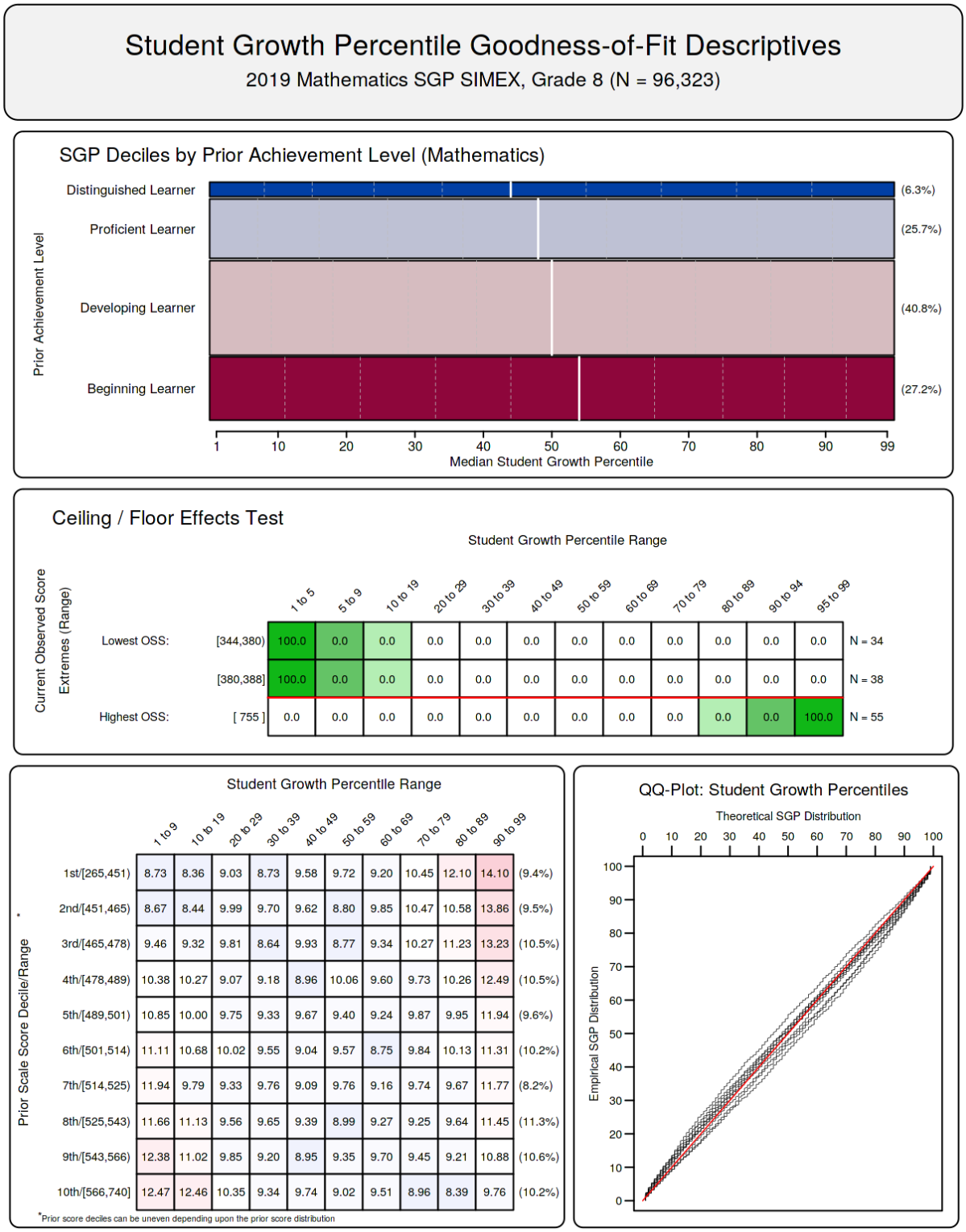
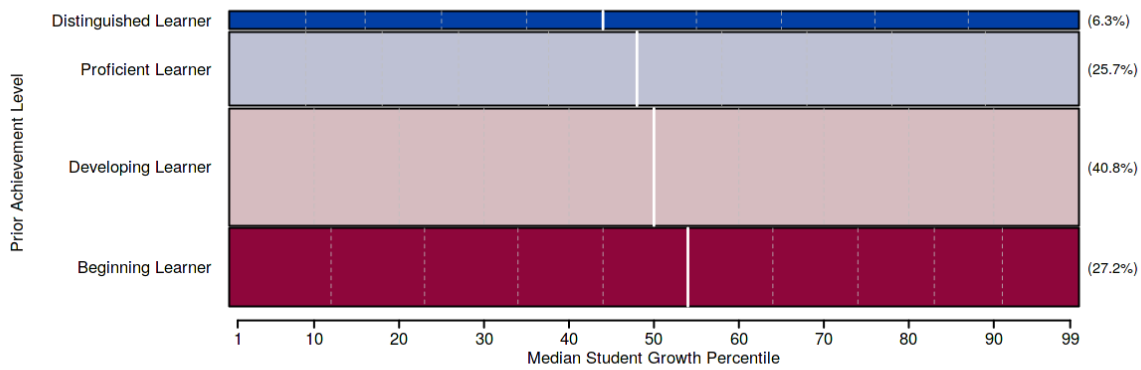


Fig. A.30: Goodness of Fit Plot for 2019 Grade 8 Mathematics (Ranked SIMEX - Two Priors).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Mathematics SGP SIMEX Ranked, Grade 8 (N = 96,323)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

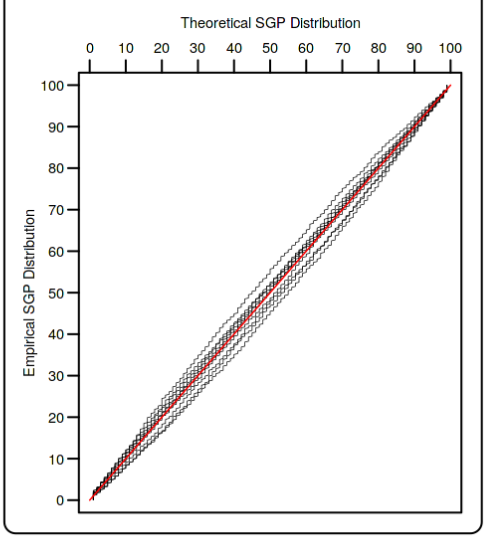
Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[344,380)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 34
	[380,388]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 38
Highest OSS:	[755]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 55

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[265,451)	7.56	8.37	9.03	9.28	10.30	10.30	10.05	10.57	12.15	12.39	(9.4%)
2nd/[451,465)	7.63	8.59	9.67	10.26	10.34	9.82	9.96	10.92	10.55	12.26	(9.5%)
3rd/[465,478)	8.34	9.00	10.24	9.25	10.46	9.19	10.09	10.47	11.42	11.54	(10.5%)
4th/[478,489)	9.14	10.06	9.53	9.83	9.32	10.69	10.21	9.86	10.14	11.22	(10.5%)
5th/[489,501)	9.44	10.16	9.85	10.03	10.22	10.08	9.92	10.00	9.82	10.48	(9.6%)
6th/[501,514)	9.73	10.44	10.38	10.42	9.64	10.18	9.46	9.90	9.73	10.13	(10.2%)
7th/[514,525)	10.46	9.84	9.71	10.35	9.63	10.19	9.87	10.22	9.19	10.54	(8.2%)
8th/[525,543)	10.50	10.81	9.95	10.24	10.05	9.50	9.77	9.36	9.83	9.99	(11.3%)
9th/[543,566)	11.17	10.63	10.41	9.75	9.56	10.08	10.27	9.46	9.06	9.62	(10.6%)
10th/[566,740]	11.16	11.70	11.16	10.17	10.31	9.76	10.00	9.08	8.16	8.51	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

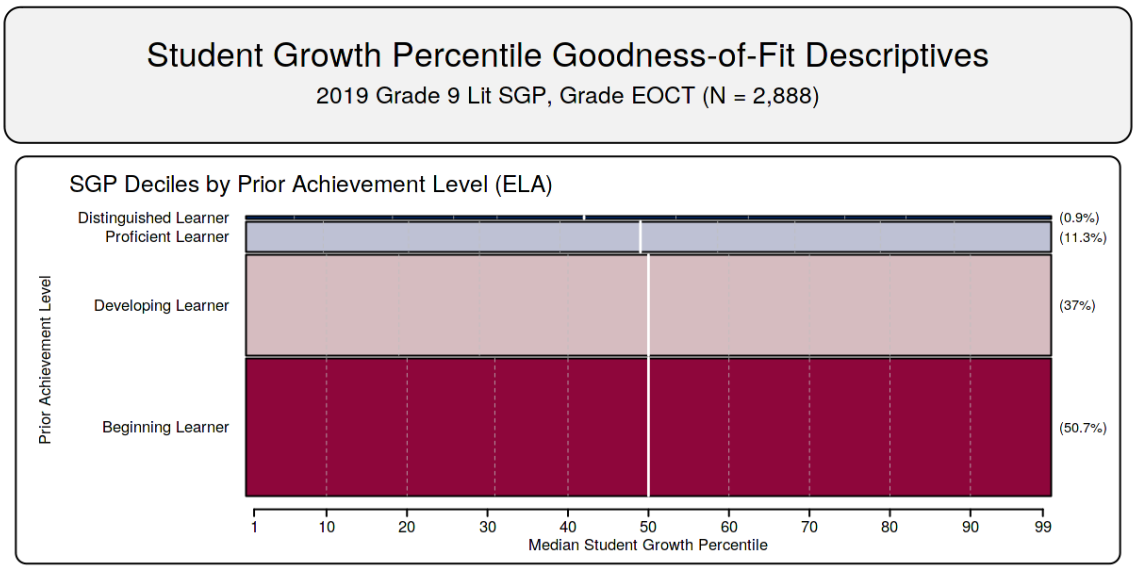
QQ-Plot: Student Growth Percentiles

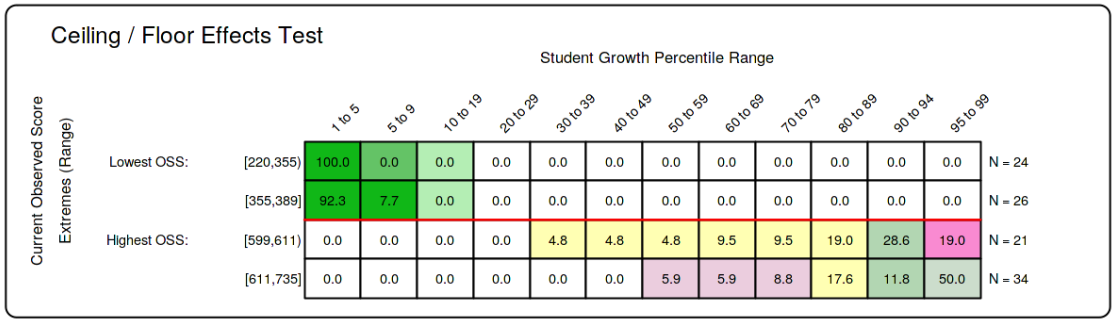


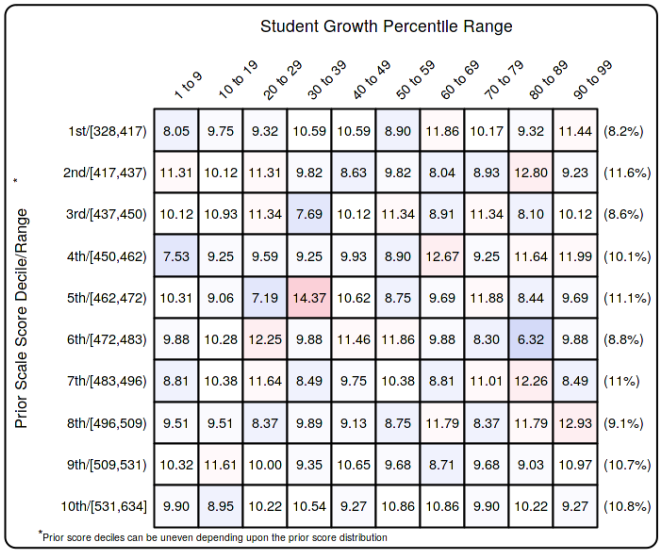
3 End-of-Course Analyses (by Course Progression)

3.1 Grade 9 Literature

Fig. A.31: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2017 ELA Grade 8 - Uncorrected).







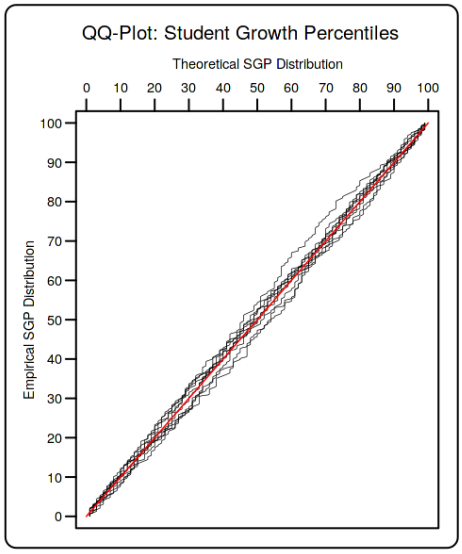
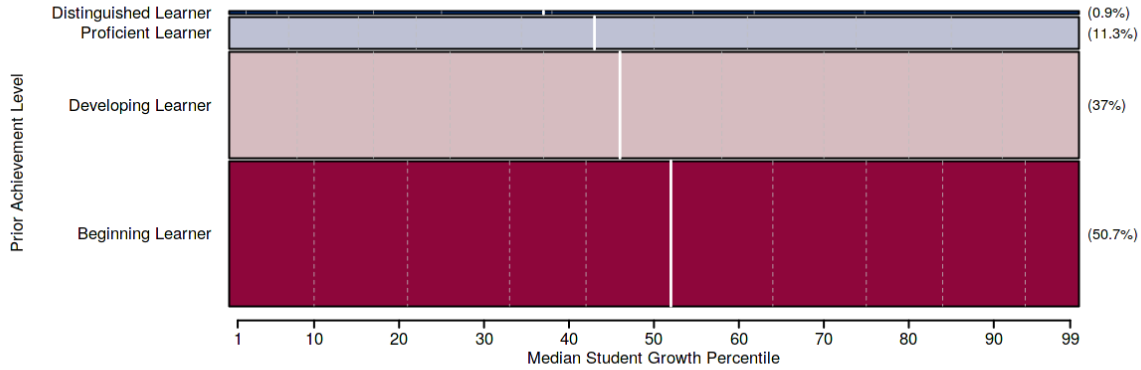


Fig. A.32: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2017 ELA Grade 8 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX, Grade EOCT (N = 2,888)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,355)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[355,389]	84.6	11.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
Highest OSS:	[599,611)	0.0	0.0	0.0	0.0	14.3	0.0	4.8	14.3	9.5	14.3	23.8	19.0	N = 21
	[611,735]	0.0	0.0	0.0	0.0	5.9	0.0	0.0	23.5	2.9	5.9	14.7	47.1	N = 34

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[328,417)	6.36	6.78	8.90	6.78	12.29	10.17	8.90	10.59	8.90	20.34	(8.2%)
2nd/[417,437)	10.71	8.93	8.33	10.42	7.74	11.61	7.14	10.42	12.20	12.50	(11.6%)
3rd/[437,450)	10.12	9.31	10.93	7.69	9.72	9.72	8.50	11.34	9.31	13.36	(8.6%)
4th/[450,462)	7.53	8.90	11.30	8.56	7.19	8.90	12.33	9.25	11.64	14.38	(10.1%)
5th/[462,472)	11.56	9.06	8.44	13.44	10.94	6.56	7.19	11.25	8.44	13.12	(11.1%)
6th/[472,483)	10.67	10.67	11.46	12.65	10.67	8.70	8.30	10.28	5.93	10.67	(8.8%)
7th/[483,496)	9.43	14.47	8.18	9.75	8.18	9.12	5.66	13.84	11.64	9.75	(11%)
8th/[496,509)	12.17	9.13	7.22	10.65	9.89	7.98	12.55	7.22	9.51	13.69	(9.1%)
9th/[509,531)	13.55	12.26	9.68	10.00	11.29	7.10	8.71	9.35	7.42	10.65	(10.7%)
10th/[531,634]	14.70	11.50	10.86	7.99	12.78	10.22	9.90	5.75	7.99	8.31	(10.8%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

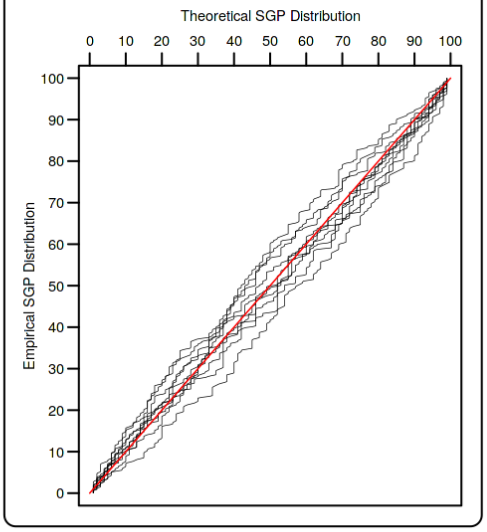
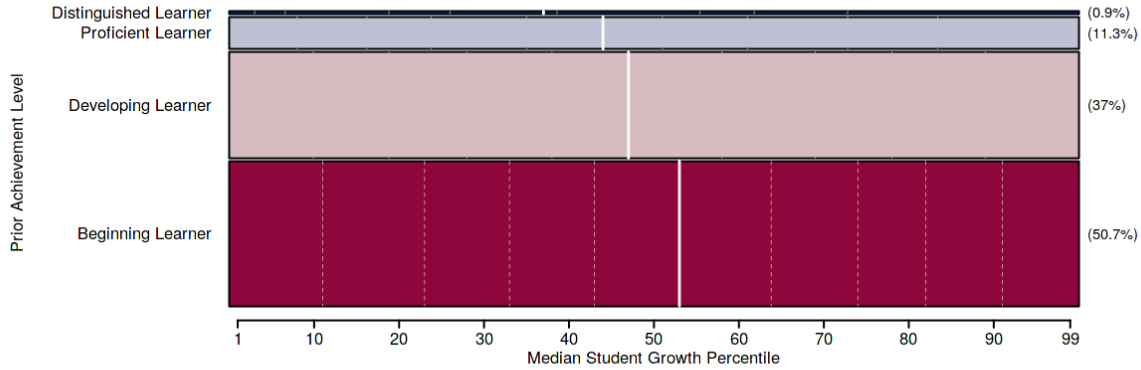


Fig. A.33: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2017 ELA Grade 8 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX Ranked, Grade EOCT (N = 2,888)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,355)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[355,389]	73.1	19.2	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
Highest OSS:	[599,611)	0.0	0.0	0.0	0.0	14.3	0.0	4.8	14.3	19.0	4.8	28.6	14.3	N = 21
	[611,735]	0.0	0.0	0.0	0.0	5.9	0.0	0.0	23.5	2.9	11.8	8.8	47.1	N = 34

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[328,417)	5.51	5.51	10.59	7.20	10.17	12.29	8.90	13.98	9.75	16.10	(8.2%)
2nd/[417,437)	8.04	9.23	8.93	12.20	7.44	11.90	8.33	10.42	13.10	10.42	(11.6%)
3rd/[437,450)	9.72	8.50	11.74	7.29	10.12	10.12	8.50	13.77	8.50	11.74	(8.6%)
4th/[450,462)	6.85	8.56	10.96	8.90	8.22	8.90	13.36	8.22	13.01	13.01	(10.1%)
5th/[462,472)	10.94	9.38	7.19	14.69	10.31	7.50	8.75	11.88	9.69	9.69	(11.1%)
6th/[472,483)	9.88	10.28	12.25	10.67	12.25	9.49	10.67	9.88	4.74	9.88	(8.8%)
7th/[483,496)	8.81	13.84	9.12	9.75	7.86	9.75	8.81	12.26	11.32	8.49	(11%)
8th/[496,509)	10.65	8.37	9.13	10.65	9.13	9.13	12.55	7.60	12.55	10.27	(9.1%)
9th/[509,531)	10.97	13.23	9.35	9.68	11.61	9.03	10.32	7.74	8.39	9.68	(10.7%)
10th/[531,634]	12.78	12.14	10.86	7.67	14.06	10.54	10.54	7.03	7.03	7.35	(10.8%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

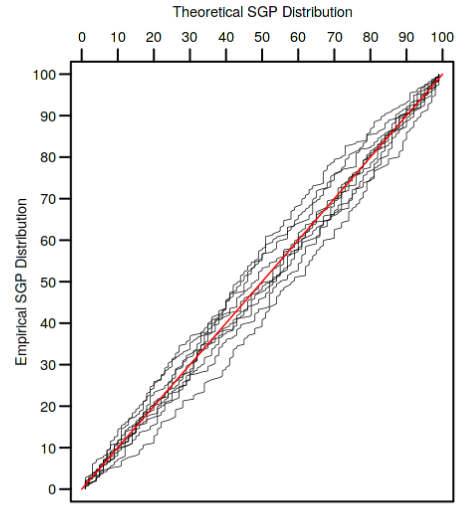
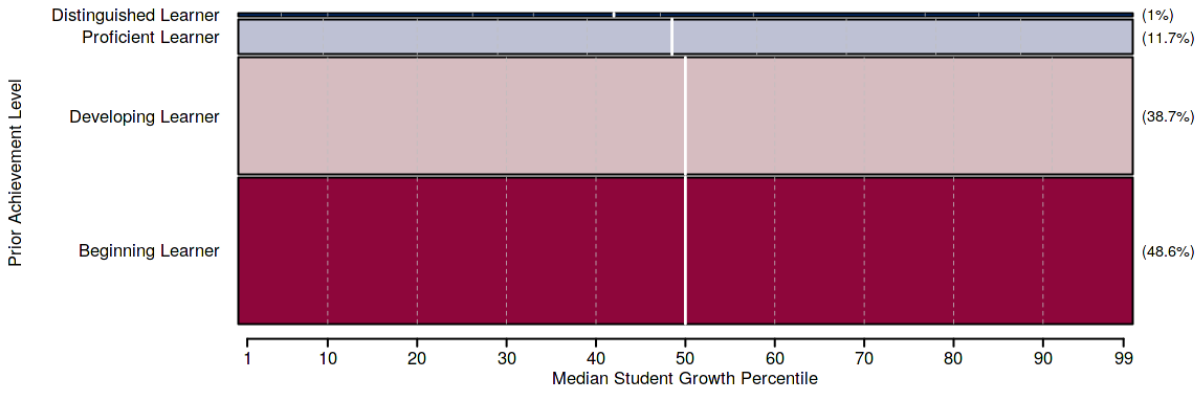


Fig. A.34: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2017 ELA Grade 8, 2016 ELA Grade 7 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP, Grade EOCT (N = 2,612)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,364)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[364,391]	72.0	20.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
Highest OSS:	[599,611)	0.0	0.0	5.0	0.0	5.0	0.0	10.0	0.0	20.0	20.0	25.0	15.0	N = 20
	[611,701]	0.0	0.0	0.0	3.2	0.0	6.5	3.2	6.5	6.5	16.1	16.1	41.9	N = 31

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[343,422)	9.52	9.52	9.52	10.82	10.39	10.39	9.52	10.39	9.96	9.96	(8.8%)
2nd/[422,441)	11.15	10.43	10.43	8.63	9.71	9.35	8.99	8.99	11.51	10.79	(10.6%)
3rd/[441,454)	9.09	13.04	10.28	10.67	7.51	9.49	13.04	10.28	7.91	8.70	(9.7%)
4th/[454,463)	9.26	6.30	10.74	10.00	10.00	8.89	10.37	11.11	11.48	11.85	(10.3%)
5th/[463,475)	10.08	10.08	8.40	9.66	12.61	12.61	8.82	8.40	10.50	8.82	(9.1%)
6th/[475,485)	10.18	8.73	10.91	10.18	9.82	10.18	10.18	10.91	6.91	12.00	(10.5%)
7th/[485,496)	7.39	12.61	11.74	9.13	10.87	10.00	8.70	6.96	15.65	6.96	(8.8%)
8th/[496,511)	11.22	8.84	7.14	10.20	10.20	9.52	11.56	12.59	6.12	12.59	(11.3%)
9th/[511,533)	8.42	10.99	11.36	10.26	9.16	9.89	9.52	9.89	10.62	9.89	(10.5%)
10th/[533,634]	11.11	9.63	10.37	9.63	10.74	9.63	9.63	9.26	10.37	9.63	(10.3%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

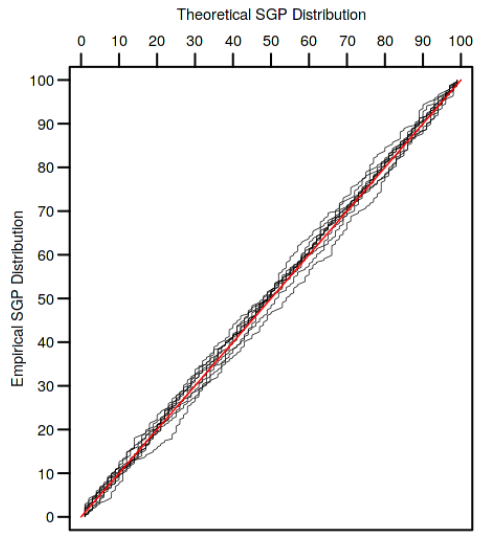
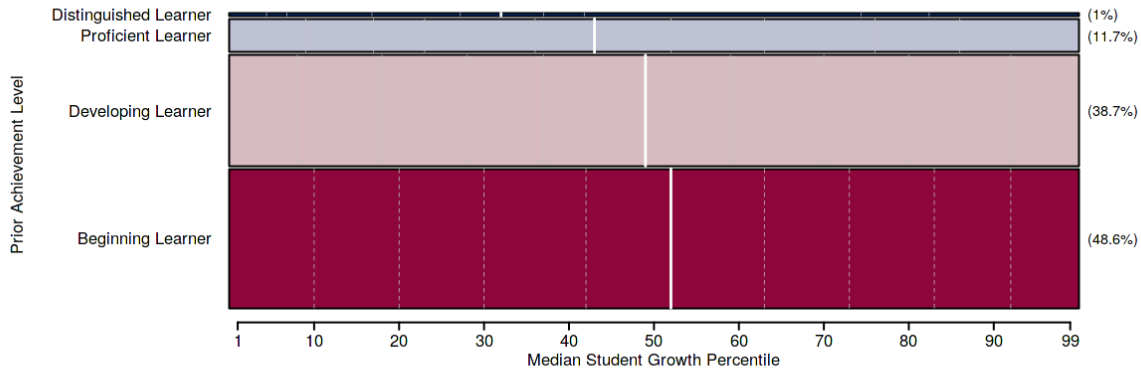


Fig. A.35: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2017 ELA Grade 8, 2016 ELA Grade 7 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX, Grade EOCT (N = 2,612)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,364)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[364,391]	64.0	20.0	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
Highest OSS:	[599,611)	0.0	5.0	0.0	5.0	5.0	5.0	0.0	5.0	20.0	30.0	5.0	20.0	N = 20
	[611,701]	0.0	3.2	0.0	0.0	6.5	6.5	3.2	3.2	3.2	19.4	12.9	41.9	N = 31

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[343,422)	7.79	6.93	9.52	8.23	11.26	11.26	10.82	9.52	9.96	14.72	(8.8%)
2nd/[422,441)	9.35	10.07	9.35	7.55	7.91	12.23	9.35	8.99	11.15	14.03	(10.6%)
3rd/[441,454)	9.49	14.23	9.09	8.70	8.30	7.51	11.46	13.44	7.11	10.67	(9.7%)
4th/[454,463)	9.63	7.04	12.22	6.67	8.89	8.52	7.78	12.59	12.22	14.44	(10.3%)
5th/[463,475)	11.76	9.66	10.08	8.82	10.08	12.61	7.98	9.24	10.92	8.82	(9.1%)
6th/[475,485)	11.64	9.45	9.45	12.73	7.27	9.82	9.45	10.91	6.91	12.36	(10.5%)
7th/[485,496)	8.70	14.35	10.00	9.13	10.00	10.00	8.70	6.09	14.35	8.70	(8.8%)
8th/[496,511)	11.56	9.52	6.80	12.24	8.16	12.24	9.18	9.86	7.48	12.93	(11.3%)
9th/[511,533)	10.62	13.19	9.52	10.99	7.69	10.26	9.16	9.52	8.06	10.99	(10.5%)
10th/[533,634]	14.81	12.96	9.26	10.00	12.96	5.19	8.15	9.63	9.26	7.78	(10.3%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

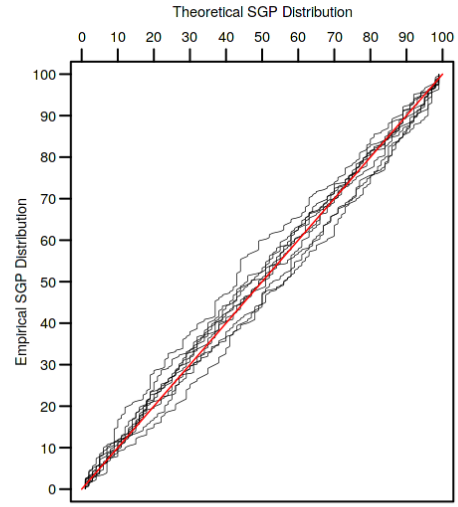
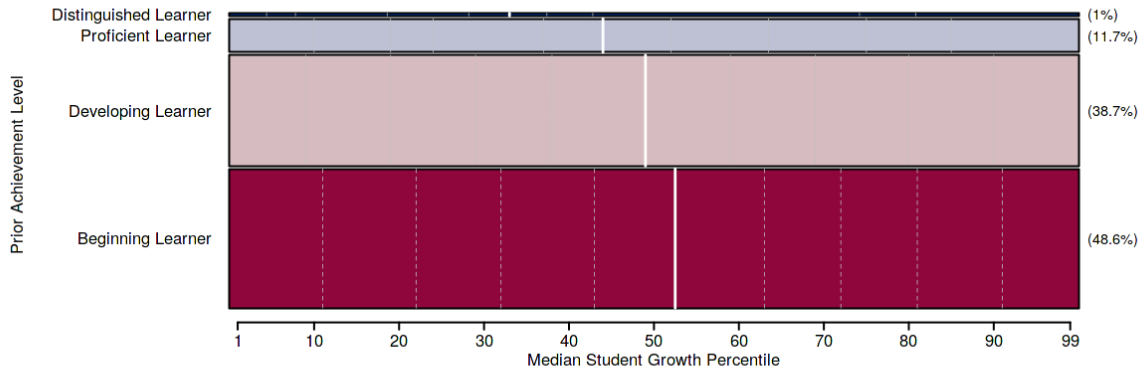


Fig. A.36: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2017 ELA Grade 8, 2016 ELA Grade 7 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX Ranked, Grade EOCT (N = 2,612)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,364)	96.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[364,391]	56.0	28.0	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
Highest OSS:	[599,611)	0.0	5.0	0.0	5.0	5.0	5.0	0.0	5.0	25.0	25.0	10.0	15.0	N = 20
	[611,701]	0.0	3.2	0.0	0.0	6.5	6.5	3.2	3.2	9.7	16.1	9.7	41.9	N = 31

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[343,422)	7.79	6.06	7.79	9.96	12.12	11.26	11.26	9.52	10.39	13.85	(8.8%)
2nd/[422,441)	8.99	10.07	8.63	8.27	8.27	12.23	9.71	8.99	12.23	12.59	(10.6%)
3rd/[441,454)	7.91	13.44	9.88	9.09	9.49	7.51	11.86	13.83	7.11	9.88	(9.7%)
4th/[454,463)	9.26	6.30	10.74	8.89	9.26	8.52	10.00	12.22	12.59	12.22	(10.3%)
5th/[463,475)	10.08	9.66	9.66	10.50	10.50	12.61	8.40	8.82	12.18	7.56	(9.1%)
6th/[475,485)	10.55	9.45	10.18	11.27	9.09	9.82	9.82	10.91	7.27	11.64	(10.5%)
7th/[485,496)	8.26	11.74	11.30	9.13	11.74	10.00	10.00	4.78	14.78	8.26	(8.8%)
8th/[496,511)	11.22	9.18	7.48	11.56	8.84	12.24	9.52	10.88	6.46	12.59	(11.3%)
9th/[511,533)	9.52	11.36	11.72	10.62	8.79	10.26	10.99	8.42	9.89	8.42	(10.5%)
10th/[533,634]	11.11	12.59	12.22	10.00	14.07	5.19	8.52	10.37	8.89	7.04	(10.3%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

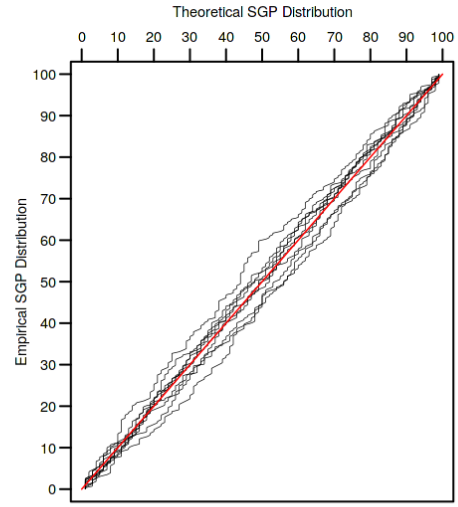
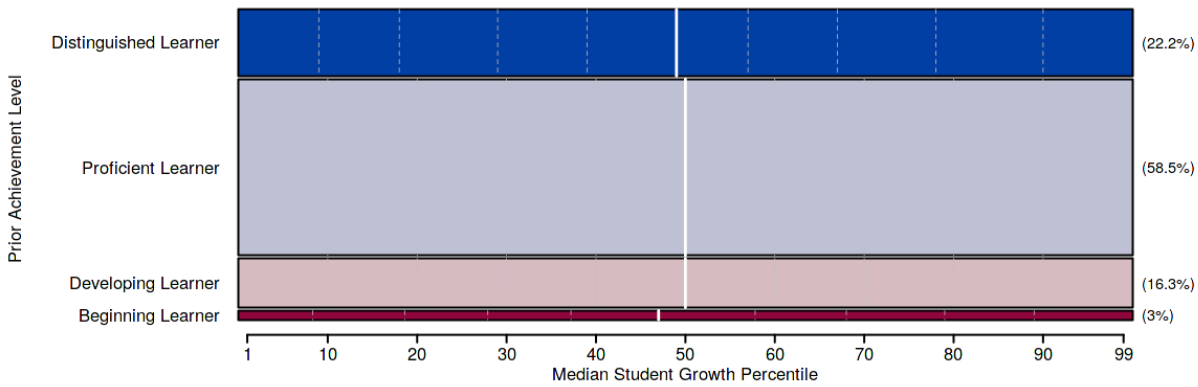


Fig. A.37: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 ELA Grade 7 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP, Grade EOCT (N = 6,053)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[350,437)	59.1	9.1	13.6	9.1	0.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	N = 22
	[437,451]	37.5	9.4	15.6	9.4	18.8	3.1	3.1	0.0	3.1	0.0	0.0	0.0	N = 32
Highest OSS:	[701]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	9.5	11.9	76.2	N = 42
	(701,735]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 27

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[326,508)	9.98	10.33	9.81	9.98	9.98	10.86	9.81	9.98	8.76	10.51	(9.4%)
2nd/[508,529)	9.85	9.35	10.52	9.35	9.35	8.51	12.35	9.18	11.35	10.18	(9.9%)
3rd/[529,541)	10.85	10.68	5.84	12.02	12.85	9.68	7.51	10.35	8.35	11.85	(9.9%)
4th/[541,547)	8.28	13.02	9.17	9.17	8.58	13.02	14.79	8.58	7.40	7.99	(5.6%)
5th/[547,560)	8.51	9.40	14.23	10.42	8.51	10.17	11.05	8.51	10.80	8.39	(13%)
6th/[560,567)	9.73	8.73	7.48	8.48	8.23	12.22	9.73	10.72	12.97	11.72	(6.6%)
7th/[567,583)	10.29	9.94	10.88	9.59	11.58	6.90	9.47	11.11	10.18	10.06	(14.1%)
8th/[583,592)	8.19	8.01	8.19	11.92	8.72	11.74	10.50	10.32	10.85	11.57	(9.3%)
9th/[592,612)	10.92	14.16	8.53	6.83	11.26	9.22	11.77	9.90	7.85	9.56	(9.7%)
10th/[612,785]	9.93	8.74	10.20	11.92	10.33	10.99	8.87	9.40	9.14	10.46	(12.5%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

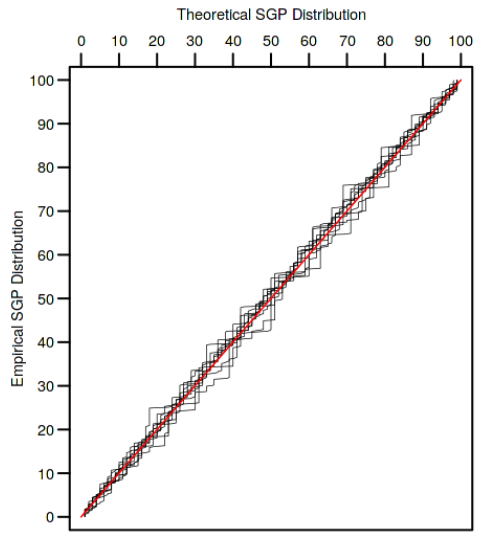
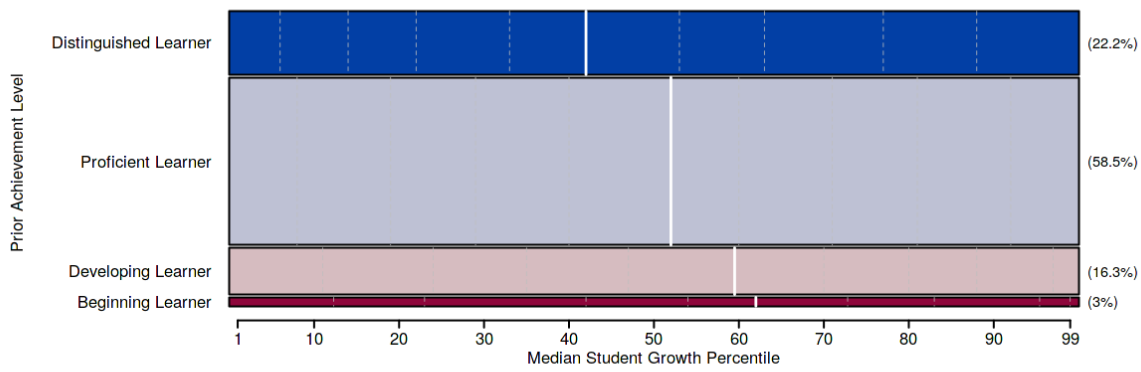


Fig. A.38: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 ELA Grade 7 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX, Grade EOCT (N = 6,053)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[350,437)	27.3	22.7	9.1	31.8	0.0	0.0	4.5	0.0	0.0	0.0	0.0	4.5	N = 22
	[437,451]	34.4	9.4	9.4	9.4	3.1	0.0	25.0	3.1	0.0	3.1	0.0	3.1	N = 32
Highest OSS:	[701]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	9.5	23.8	64.3	N = 42
	(701,735]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 27

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[326,508)	7.18	5.08	12.08	6.65	6.83	9.28	11.21	10.51	9.46	21.72	(9.4%)
2nd/[508,529)	8.51	7.18	8.35	9.35	10.18	7.85	9.35	9.02	14.19	16.03	(9.9%)
3rd/[529,541)	10.18	9.52	6.51	10.52	6.51	13.36	7.01	12.19	9.02	15.19	(9.9%)
4th/[541,547)	8.28	9.47	12.72	9.17	8.58	7.69	10.65	9.47	12.13	11.83	(5.6%)
5th/[547,560)	9.40	11.31	12.71	9.15	7.50	11.18	3.05	13.60	10.80	11.31	(13%)
6th/[560,567)	9.73	8.73	12.47	5.99	5.74	12.22	9.73	10.72	12.97	11.72	(6.6%)
7th/[567,583)	12.63	11.11	9.59	7.37	11.58	10.88	5.50	12.87	8.42	10.06	(14.1%)
8th/[583,592)	11.57	10.68	7.83	10.68	8.90	12.10	6.23	11.03	9.43	11.57	(9.3%)
9th/[592,612)	14.85	10.24	12.63	8.87	8.87	10.75	6.48	9.90	7.85	9.56	(9.7%)
10th/[612,785]	15.36	11.66	7.42	14.97	6.75	10.33	9.93	6.89	8.48	8.21	(12.5%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

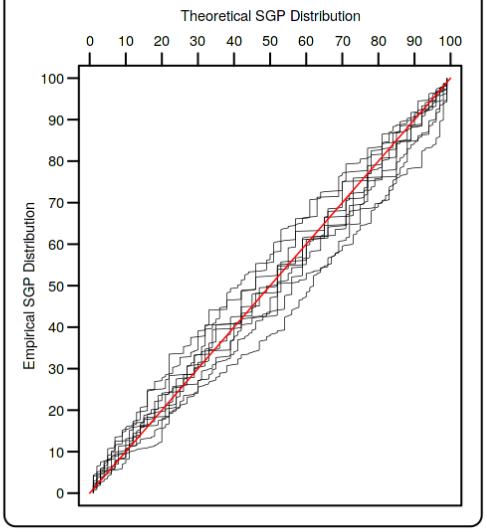
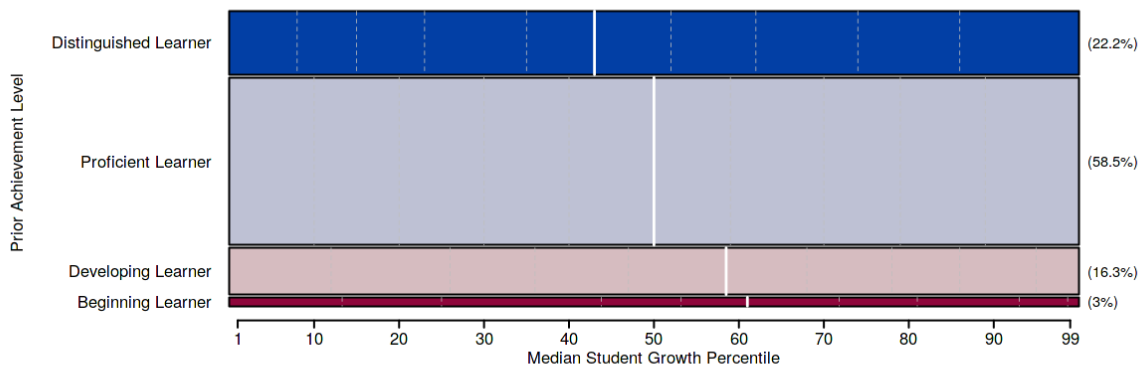


Fig. A.39: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 ELA Grade 7 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX Ranked, Grade EOCT (N = 6,053)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[350,437)	27.3	18.2	9.1	36.4	0.0	0.0	4.5	0.0	0.0	0.0	0.0	4.5	N = 22
	[437,451]	28.1	9.4	12.5	12.5	3.1	3.1	21.9	3.1	0.0	3.1	0.0	3.1	N = 32
Highest OSS:	[701]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	21.4	26.2	50.0	N = 42
	(701,735]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 27

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[326,508)	5.78	5.95	11.56	7.53	7.71	9.28	11.91	10.68	9.98	19.61	(9.4%)
2nd/[508,529)	7.35	7.68	8.68	8.68	11.52	7.51	10.18	8.68	16.53	13.19	(9.9%)
3rd/[529,541)	10.02	8.35	7.85	8.01	13.02	9.35	8.51	12.69	8.51	13.69	(9.9%)
4th/[541,547)	8.28	7.99	11.54	11.83	8.58	13.02	5.33	9.47	15.98	7.99	(5.6%)
5th/[547,560)	6.99	10.93	13.47	7.37	11.31	11.18	9.28	10.29	7.88	11.31	(13%)
6th/[560,567)	9.48	8.98	12.47	5.99	5.74	12.22	9.73	18.45	5.24	11.72	(6.6%)
7th/[567,583)	12.63	7.60	8.30	12.16	11.58	10.88	12.05	9.36	7.95	7.49	(14.1%)
8th/[583,592)	9.07	13.17	6.41	12.10	8.90	12.10	6.23	12.28	12.10	7.65	(9.3%)
9th/[592,612)	13.65	11.43	12.63	8.87	8.87	10.75	11.26	6.83	7.00	8.70	(9.7%)
10th/[612,785]	10.60	16.42	7.02	15.36	10.33	6.75	12.05	5.96	10.07	5.43	(12.5%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

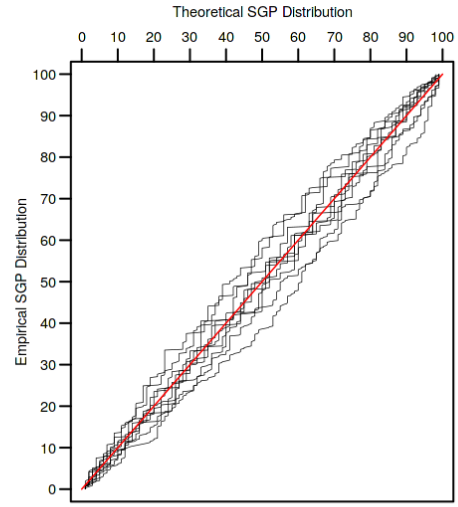
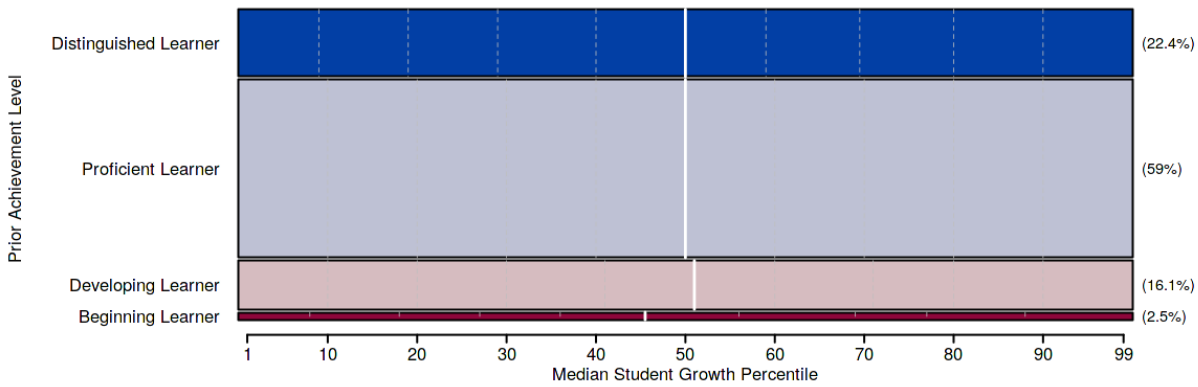


Fig. A.40: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 ELA Grade 7, 2017 ELA Grade 6 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP, Grade EOCT (N = 5,843)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[350,447)	42.3	11.5	11.5	11.5	11.5	7.7	0.0	0.0	3.8	0.0	0.0	0.0	N = 26
	[447,460]	25.9	22.2	29.6	3.7	3.7	7.4	3.7	0.0	3.7	0.0	0.0	0.0	N = 27
Highest OSS:	[701]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	7.7	28.2	59.0	N = 39
	(701,735]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 26

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[326,509)	9.66	11.09	10.20	10.73	10.20	9.66	10.02	9.30	9.48	9.66	(9.6%)
2nd/[509,529)	9.47	8.71	9.85	7.77	10.61	11.93	7.01	12.88	10.80	10.98	(9%)
3rd/[529,541)	11.54	8.15	8.83	10.87	10.70	8.32	12.22	9.51	9.34	10.53	(10.1%)
4th/[541,547)	6.73	13.15	12.23	11.62	6.42	9.17	11.93	9.48	8.26	11.01	(5.6%)
5th/[547,560)	9.77	10.29	9.90	9.51	10.55	11.98	9.77	7.94	10.55	9.77	(13.1%)
6th/[560,567)	9.28	8.51	10.82	11.60	9.54	9.79	9.54	9.28	9.02	12.63	(6.6%)
7th/[567,583)	8.97	11.72	10.65	9.93	8.73	7.89	10.65	11.60	10.29	9.57	(14.3%)
8th/[583,592)	9.04	8.67	8.67	9.59	12.36	9.59	9.96	10.33	10.33	11.44	(9.3%)
9th/[592,612)	11.05	9.47	10.35	7.37	10.70	12.11	8.25	9.82	11.23	9.65	(9.8%)
10th/[612,785]	9.38	10.46	9.65	11.41	9.51	9.65	10.46	10.05	8.97	10.46	(12.6%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

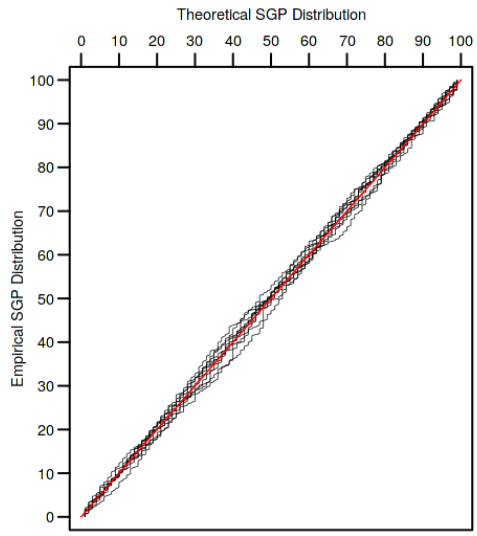
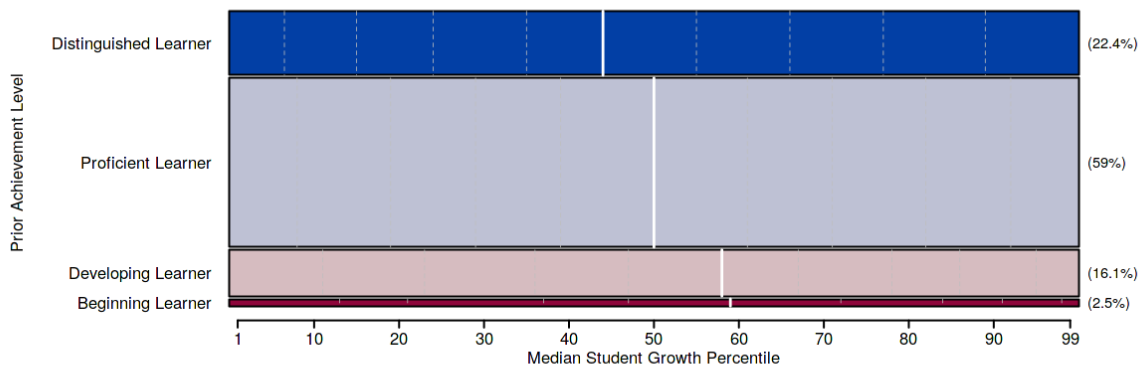


Fig. A.41: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 ELA Grade 7, 2017 ELA Grade 6 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX, Grade EOCT (N = 5,843)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[350,447)	30.8	11.5	11.5	7.7	7.7	11.5	3.8	0.0	7.7	0.0	0.0	7.7	N = 26
	[447,460]	22.2	11.1	37.0	7.4	3.7	0.0	3.7	7.4	3.7	0.0	3.7	0.0	N = 27
Highest OSS:	[701]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	12.8	25.6	56.4	N = 39
	(701,735]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 26

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[326,509)	7.87	10.02	7.16	9.12	9.30	10.55	7.33	9.84	11.45	17.35	(9.6%)
2nd/[509,529)	9.09	7.58	9.09	6.63	7.20	12.69	10.04	7.20	15.15	15.34	(9%)
3rd/[529,541)	11.88	7.81	7.81	9.51	9.34	8.32	10.70	9.85	9.68	15.11	(10.1%)
4th/[541,547)	8.26	10.09	12.23	11.62	7.03	6.73	11.01	10.70	8.56	13.76	(5.6%)
5th/[547,560)	10.29	10.55	9.11	8.98	8.59	12.37	9.64	8.33	9.90	12.24	(13.1%)
6th/[560,567)	10.82	9.28	9.54	9.79	10.31	8.76	10.57	6.44	11.86	12.63	(6.6%)
7th/[567,583)	11.24	12.32	9.69	10.05	7.66	7.54	10.05	11.24	9.57	10.65	(14.3%)
8th/[583,592)	11.25	9.04	9.41	11.44	10.89	7.93	9.96	9.04	9.59	11.44	(9.3%)
9th/[592,612)	13.16	11.23	10.70	8.77	9.65	8.95	9.65	8.77	10.18	8.95	(9.8%)
10th/[612,785]	13.99	9.24	11.96	12.09	7.74	9.65	9.38	8.42	8.15	9.38	(12.6%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

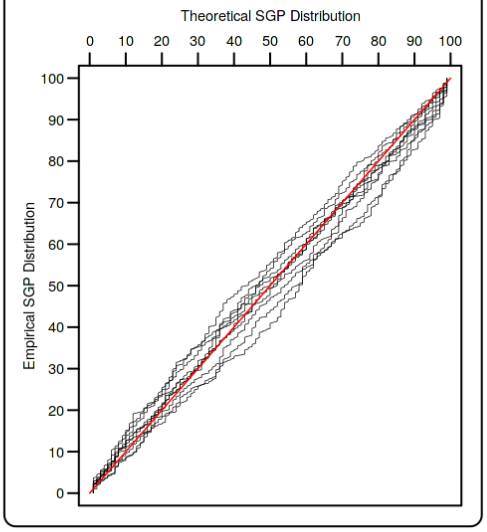
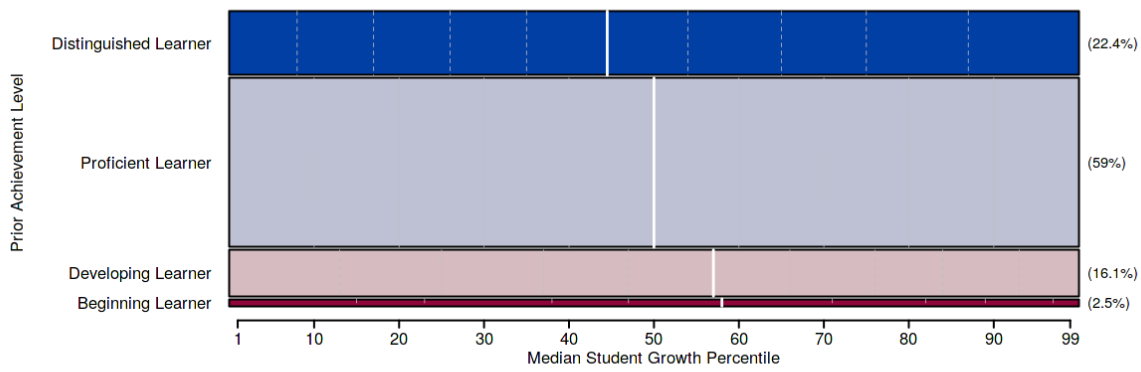


Fig. A.42: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 ELA Grade 7, 2017 ELA Grade 6 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX Ranked, Grade EOCT (N = 5,843)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[350,447)	26.9	15.4	11.5	7.7	7.7	11.5	3.8	0.0	7.7	0.0	0.0	7.7	N = 26
	[447,460]	22.2	11.1	33.3	11.1	3.7	0.0	3.7	7.4	3.7	0.0	3.7	0.0	N = 27
Highest OSS:	[701]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	15.4	33.3	46.2	N = 39
	(701,735]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 26

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[326,509)	6.80	9.66	7.16	9.30	10.73	10.91	8.41	9.84	11.81	15.38	(9.6%)
2nd/[509,529)	7.77	8.14	9.28	6.82	8.14	13.26	9.66	10.98	12.88	13.07	(9%)
3rd/[529,541)	10.36	8.32	7.81	10.02	10.70	8.15	11.71	11.04	9.34	12.56	(10.1%)
4th/[541,547)	7.03	11.31	11.01	12.23	7.65	7.03	12.54	10.40	9.48	11.31	(5.6%)
5th/[547,560)	9.38	9.90	9.64	9.38	10.55	12.63	9.64	8.33	10.16	10.42	(13.1%)
6th/[560,567)	9.28	9.02	10.31	10.57	10.57	10.82	9.28	9.02	10.05	11.08	(6.6%)
7th/[567,583)	9.93	11.60	10.65	9.45	10.29	8.01	9.57	12.44	9.21	8.85	(14.3%)
8th/[583,592)	10.15	9.23	9.59	11.44	11.62	9.41	9.96	7.75	11.44	9.41	(9.3%)
9th/[592,612)	11.23	10.88	12.63	8.95	10.00	9.30	10.18	10.53	8.25	8.07	(9.8%)
10th/[612,785]	11.96	10.19	12.36	12.36	8.42	10.05	10.19	9.10	7.88	7.47	(12.6%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

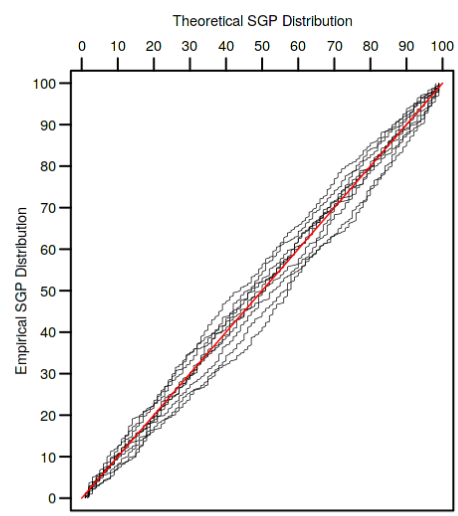
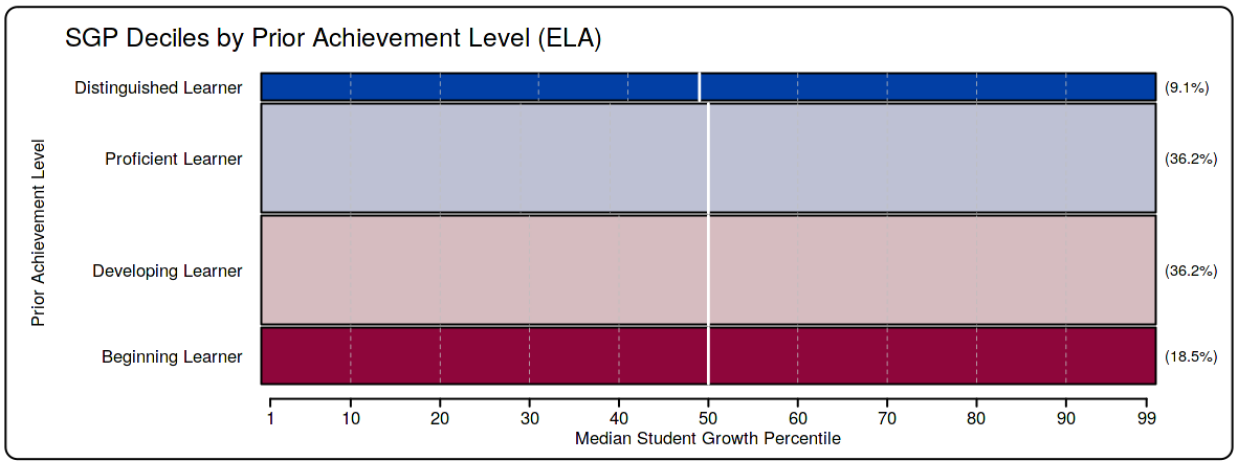


Fig. A.43: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 ELA Grade 8 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP, Grade EOCT (N = 109,610)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,314)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
	[314,335]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[735]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 164

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[297,455)	9.88	10.13	10.00	9.96	9.91	9.39	10.47	10.10	9.89	10.28	(9.7%)
2nd/[455,478)	9.49	9.71	10.01	9.43	10.62	10.15	10.48	9.79	9.73	10.60	(10.3%)
3rd/[478,494)	9.06	9.69	9.97	11.01	10.48	11.10	7.64	9.02	11.56	10.47	(8.7%)
4th/[494,507)	9.40	10.88	9.97	10.65	9.71	8.96	11.15	10.01	9.02	10.26	(9.5%)
5th/[507,520)	10.23	9.78	9.84	7.89	10.68	11.18	8.73	10.87	10.07	10.73	(10.9%)
6th/[520,530)	9.45	9.07	10.78	10.37	8.45	10.48	11.65	9.44	10.02	10.29	(9.7%)
7th/[530,544)	9.02	10.93	9.98	11.52	9.83	9.55	8.66	10.03	10.75	9.73	(10.5%)
8th/[544,557)	9.61	10.37	9.39	8.66	11.36	10.07	10.74	8.96	10.19	10.64	(9.5%)
9th/[557,577)	9.94	10.33	10.67	9.89	9.79	9.37	10.19	9.61	9.18	11.03	(9.2%)
10th/[577,730]	9.50	9.92	10.74	9.20	9.69	10.34	9.80	10.71	9.85	10.25	(12.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

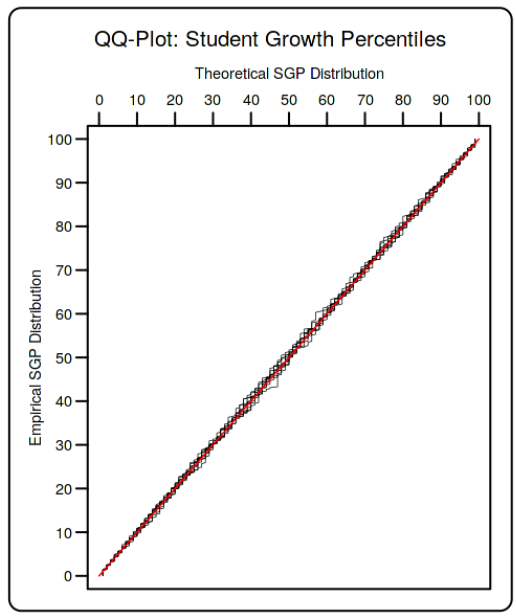
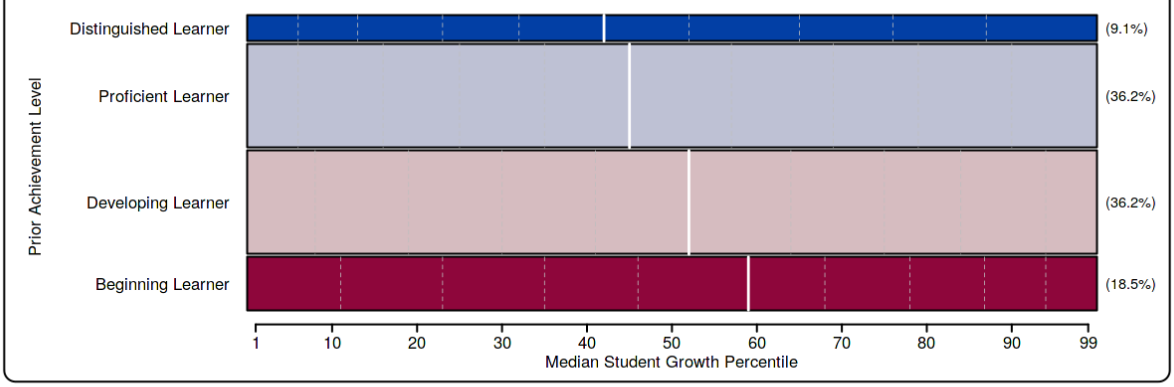


Fig. A.44: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 ELA Grade 8 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX, Grade EOCT (N = 109,610)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,314)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
	[314,335]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[735]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 164

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[297,455)	8.03	8.43	8.17	7.73	9.76	6.91	11.14	10.45	12.46	16.91	(9.7%)
2nd/[455,478)	8.35	8.58	9.38	8.89	9.33	8.33	10.15	11.02	10.61	15.35	(10.3%)
3rd/[478,494)	9.50	9.37	8.52	10.00	8.89	9.77	8.72	8.60	10.08	16.54	(8.7%)
4th/[494,507)	10.83	9.80	8.96	9.53	8.34	9.20	7.13	12.10	9.46	14.66	(9.5%)
5th/[507,520)	12.53	9.27	8.80	6.19	8.85	10.81	8.78	9.17	8.93	16.66	(10.9%)
6th/[520,530)	11.70	8.82	10.79	9.90	7.57	8.55	10.56	10.41	8.54	13.15	(9.7%)
7th/[530,544)	12.07	11.93	9.81	9.23	10.40	7.64	9.29	8.33	9.41	11.90	(10.5%)
8th/[544,557)	14.18	10.86	11.37	8.25	9.55	8.94	7.90	9.94	8.36	10.64	(9.5%)
9th/[557,577)	16.05	11.12	10.66	6.92	10.27	9.63	8.10	9.46	8.30	9.49	(9.2%)
10th/[577,730]	16.18	10.96	11.12	9.72	6.65	11.23	7.43	10.06	8.06	8.59	(12.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

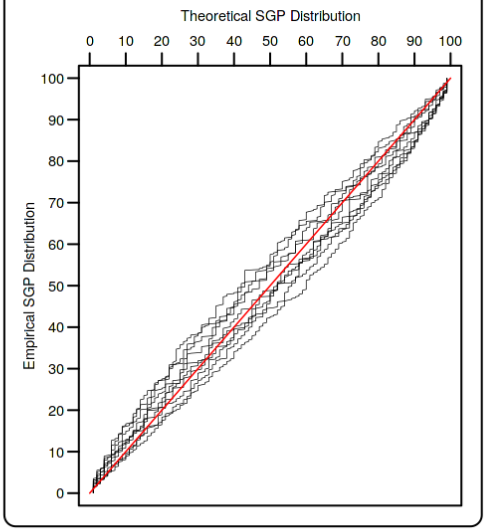
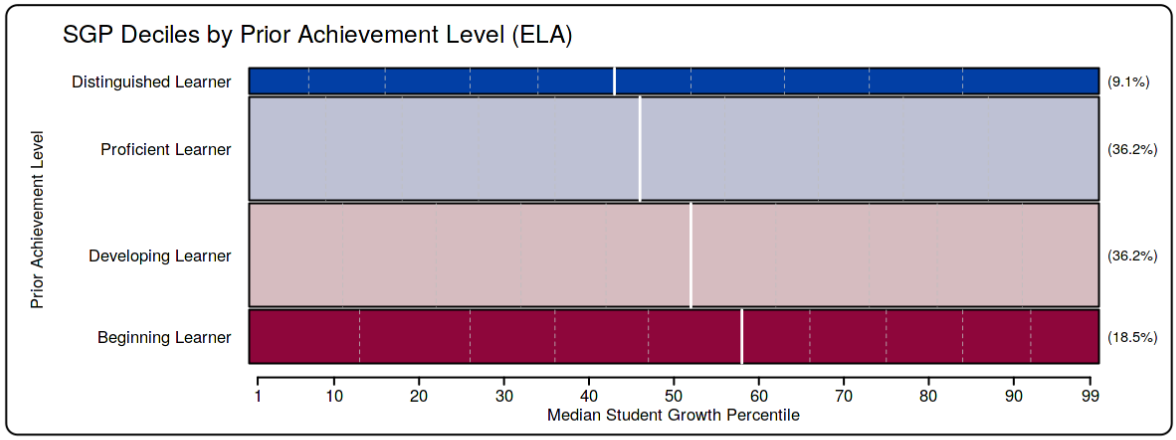


Fig. A.45: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 ELA Grade 8 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX Ranked, Grade EOCT (N = 109,610)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,314)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
	[314,335]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[735]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 164

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[297,455)	6.03	7.81	8.67	9.19	10.45	9.75	10.45	11.21	13.82	12.62	(9.7%)
2nd/[455,478)	7.16	8.72	7.11	10.87	10.75	9.58	11.21	10.94	10.95	12.71	(10.3%)
3rd/[478,494)	6.59	9.56	8.46	12.05	11.45	9.57	9.37	8.04	12.07	12.84	(8.7%)
4th/[494,507)	7.84	10.31	9.94	11.03	8.34	9.20	9.75	10.52	12.09	11.00	(9.5%)
5th/[507,520)	9.67	10.34	8.44	6.88	11.84	9.28	10.38	10.65	9.72	12.80	(10.9%)
6th/[520,530)	9.61	10.54	10.35	9.43	8.85	9.29	13.12	9.84	7.67	11.30	(9.7%)
7th/[530,544)	9.88	10.69	12.73	9.73	10.40	7.64	10.35	11.08	8.07	9.44	(10.5%)
8th/[544,557)	11.29	10.17	11.49	9.59	11.68	10.26	9.39	8.20	9.17	8.76	(9.5%)
9th/[557,577)	12.57	10.39	11.63	8.60	11.84	10.51	8.51	9.42	8.79	7.76	(9.2%)
10th/[577,730]	13.13	11.64	12.21	10.99	6.65	13.16	8.13	9.60	7.46	7.02	(12.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

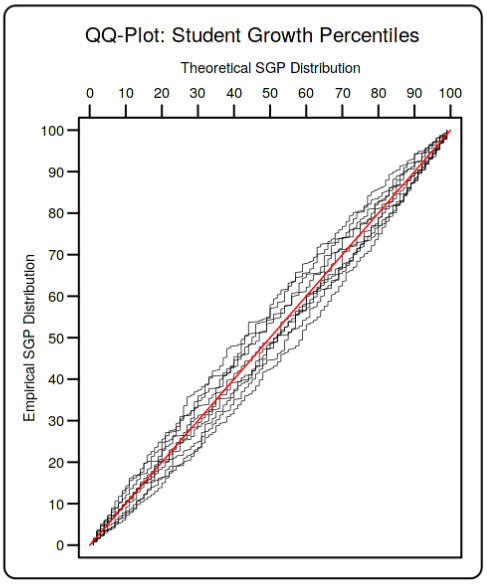
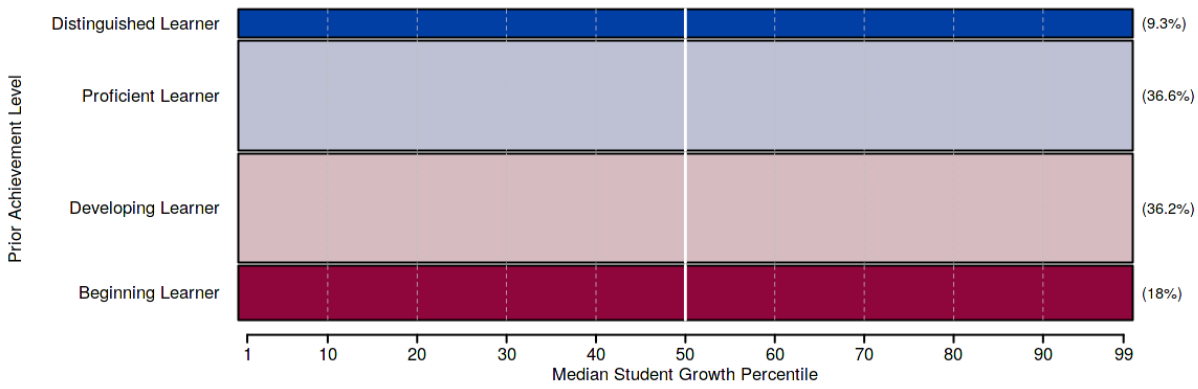


Fig. A.46: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 ELA Grade 8, 2017 ELA Grade 7 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP, Grade EOCT (N = 104,205)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,314)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[314,335]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[735]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 153

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[319,455)	9.56	10.06	10.25	9.72	9.91	9.95	10.01	10.15	10.01	10.37	(9.3%)
2nd/[455,478)	9.56	10.05	9.55	10.25	9.83	10.07	10.31	9.90	9.88	10.59	(10.1%)
3rd/[478,494)	8.97	9.90	10.11	10.47	10.80	9.77	9.48	9.83	10.03	10.65	(8.7%)
4th/[494,507)	9.66	10.18	10.24	9.92	9.43	10.53	9.92	9.92	9.88	10.32	(9.5%)
5th/[507,520)	9.88	9.86	9.68	9.49	10.09	9.65	10.29	10.28	10.24	10.54	(11%)
6th/[520,530)	9.69	9.34	10.13	10.12	9.76	9.84	9.86	10.32	9.97	10.97	(9.7%)
7th/[530,544)	9.11	10.37	10.26	10.19	10.37	10.51	9.90	9.71	9.86	9.73	(10.6%)
8th/[544,557)	9.41	10.48	9.91	9.87	9.97	9.61	10.10	9.79	10.07	10.79	(9.5%)
9th/[557,577)	9.64	9.94	9.63	10.27	10.01	10.09	9.84	9.90	9.82	10.85	(9.3%)
10th/[577,730]	9.61	9.78	10.26	9.91	9.92	9.98	10.02	10.14	10.09	10.30	(12.3%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

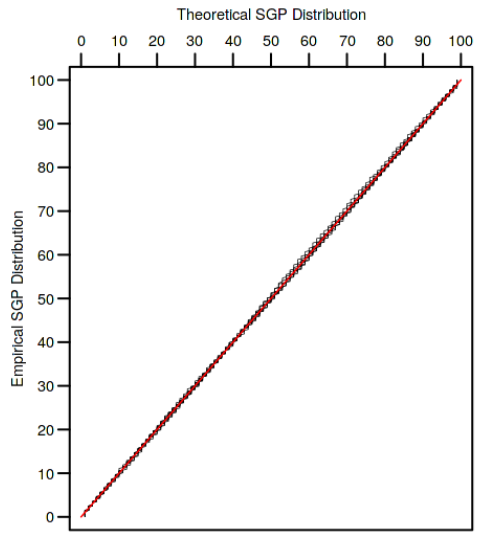
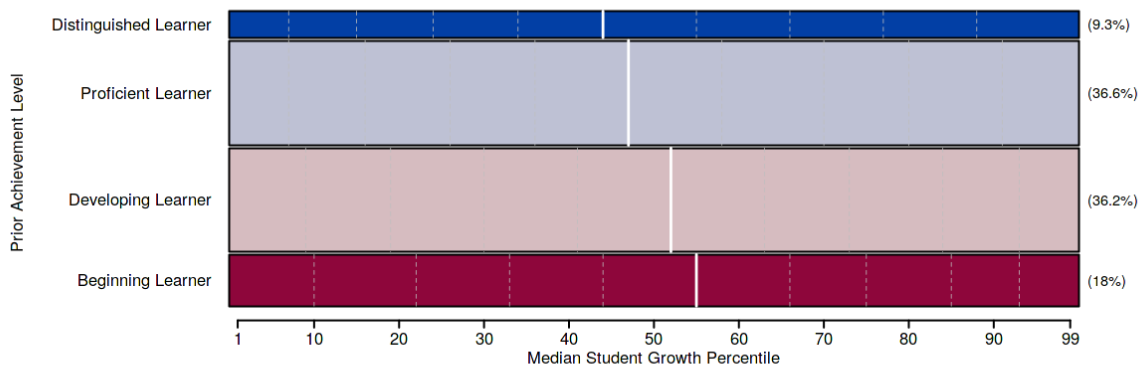


Fig. A.47: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 ELA Grade 8, 2017 ELA Grade 7 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX, Grade EOCT (N = 104,205)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,314)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[314,335]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[735]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 153

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[319,455)	8.53	8.34	9.03	8.60	8.77	9.26	9.97	10.66	11.49	15.36	(9.3%)
2nd/[455,478)	9.67	9.34	8.80	8.84	9.61	9.41	9.78	9.71	10.67	14.16	(10.1%)
3rd/[478,494)	9.90	8.85	9.40	9.45	10.22	9.32	8.75	9.39	10.06	14.66	(8.7%)
4th/[494,507)	10.75	10.05	9.79	8.83	8.60	9.34	9.06	9.71	10.21	13.66	(9.5%)
5th/[507,520)	11.82	9.54	8.72	9.25	8.58	9.05	9.18	9.66	10.46	13.74	(11%)
6th/[520,530)	11.85	10.10	9.58	8.45	9.07	8.65	8.98	9.79	10.29	13.24	(9.7%)
7th/[530,544)	12.06	10.41	10.27	9.00	9.58	9.49	8.77	9.34	9.90	11.18	(10.6%)
8th/[544,557)	12.85	10.86	9.92	9.38	8.95	8.88	8.73	9.17	9.64	11.61	(9.5%)
9th/[557,577)	13.33	10.89	10.03	9.59	9.32	9.41	8.47	9.04	9.12	10.81	(9.3%)
10th/[577,730]	13.83	11.62	10.61	9.18	9.53	8.83	9.75	8.42	8.99	9.24	(12.3%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

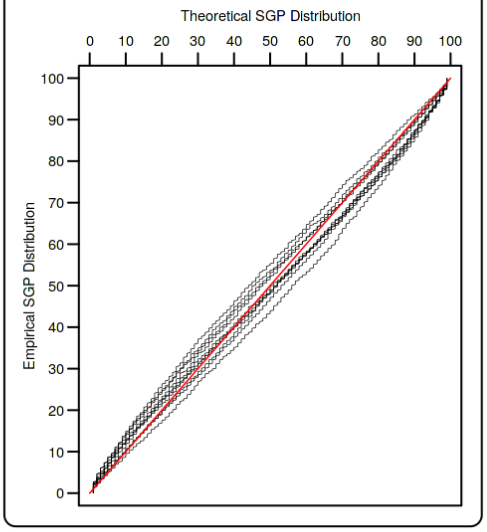
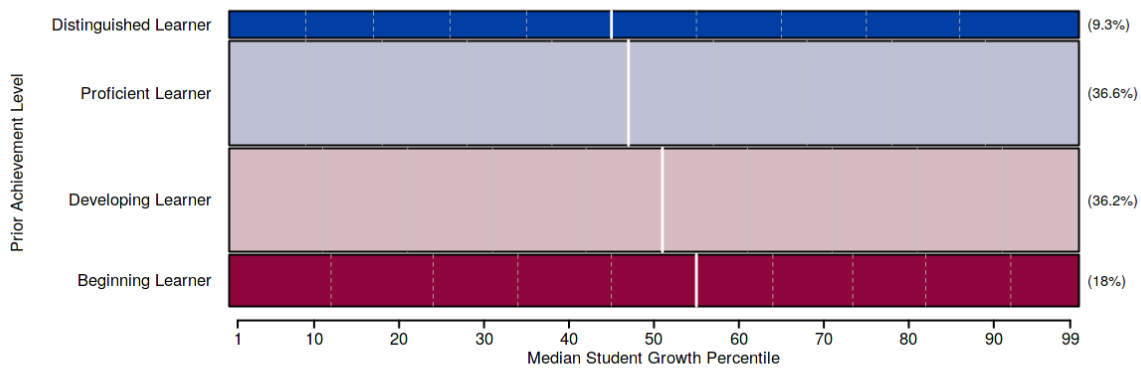


Fig. A.48: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 ELA Grade 8, 2017 ELA Grade 7 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX Ranked, Grade EOCT (N = 104,205)

SGP Deciles by Prior Achievement Level (ELA)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,314)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[314,335]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[735]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 153

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[319,455)	7.01	8.17	8.91	9.63	9.55	10.02	11.22	11.34	11.09	13.06	(9.3%)
2nd/[455,478)	7.92	9.15	9.14	9.77	10.28	10.13	10.73	10.41	10.34	12.14	(10.1%)
3rd/[478,494)	8.08	9.11	9.85	9.89	10.88	10.10	9.52	9.95	10.62	11.99	(8.7%)
4th/[494,507)	8.94	10.09	10.14	9.62	9.23	10.18	10.07	10.04	10.44	11.25	(9.5%)
5th/[507,520)	9.56	10.02	9.29	9.99	9.05	9.79	9.94	10.43	10.62	11.30	(11%)
6th/[520,530)	9.80	9.84	9.95	9.65	9.83	9.28	10.12	10.32	9.88	11.34	(9.7%)
7th/[530,544)	10.00	10.24	10.41	10.31	10.36	10.40	9.84	9.47	9.53	9.43	(10.6%)
8th/[544,557)	10.60	11.14	10.19	10.55	9.49	9.87	9.30	9.95	9.29	9.62	(9.5%)
9th/[557,577)	10.87	11.03	10.64	10.26	10.36	10.37	9.08	9.38	9.26	8.76	(9.3%)
10th/[577,730]	11.31	11.55	11.15	10.39	10.37	9.92	10.34	8.81	8.50	7.66	(12.3%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

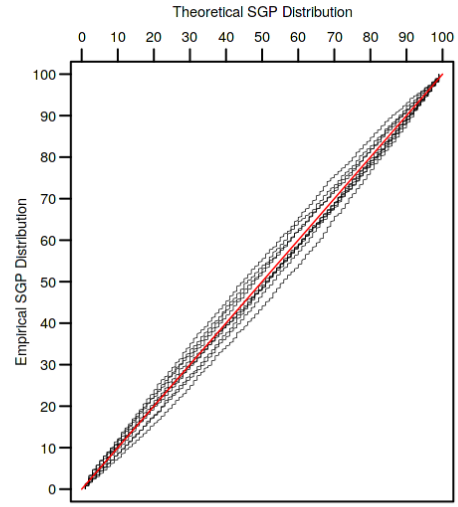
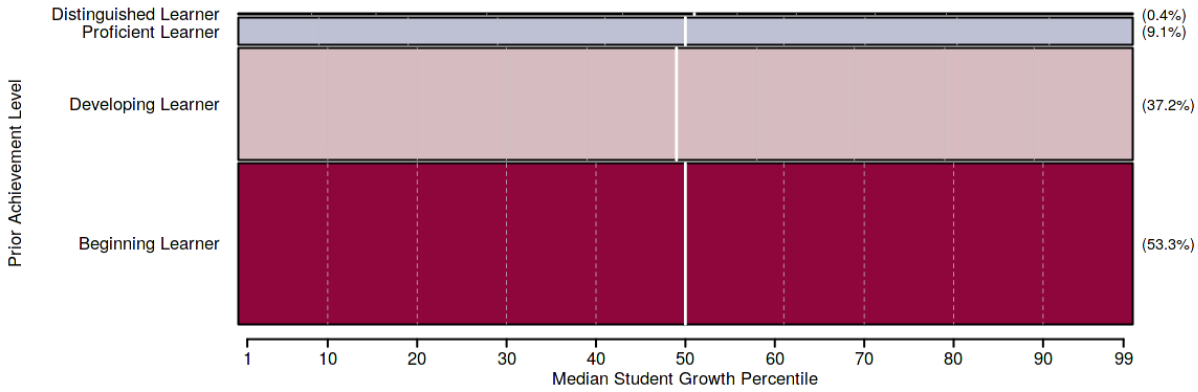


Fig. A.49: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2017 Grade 9 Lit - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP, Grade EOCT (N = 2,360)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,362)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[362,381]	96.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[575,588)	0.0	0.0	0.0	0.0	0.0	5.0	5.0	5.0	25.0	10.0	5.0	45.0	N = 20
	[588,641]	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	6.7	26.7	16.7	46.7	N = 30

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,417)	11.06	9.79	10.64	8.94	10.21	11.06	9.36	8.51	10.64	9.79	(10%)
2nd/[417,436)	8.70	13.04	10.14	11.11	11.11	9.66	11.59	10.14	8.21	6.28	(8.8%)
3rd/[436,450)	7.47	8.30	9.96	11.20	9.54	10.79	7.47	12.03	10.37	12.86	(10.2%)
4th/[450,459)	10.09	9.17	6.88	9.17	9.63	9.17	13.30	9.17	9.63	13.76	(9.2%)
5th/[459,468)	10.95	7.96	10.95	7.96	7.96	6.97	10.45	12.44	12.44	11.94	(8.5%)
6th/[468,481)	10.26	10.60	12.25	11.26	10.60	11.26	9.27	7.62	8.61	8.28	(12.8%)
7th/[481,491)	8.09	12.34	6.81	11.49	8.51	10.21	8.09	12.77	10.64	11.06	(10%)
8th/[491,505)	10.33	8.68	12.40	5.79	12.40	9.92	11.57	9.92	8.26	10.74	(10.3%)
9th/[505,524)	8.71	11.20	8.71	13.28	10.37	9.54	9.13	8.71	11.62	8.71	(10.2%)
10th/[524,615]	10.92	9.66	10.50	8.40	9.66	10.08	10.50	10.50	9.24	10.50	(10.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

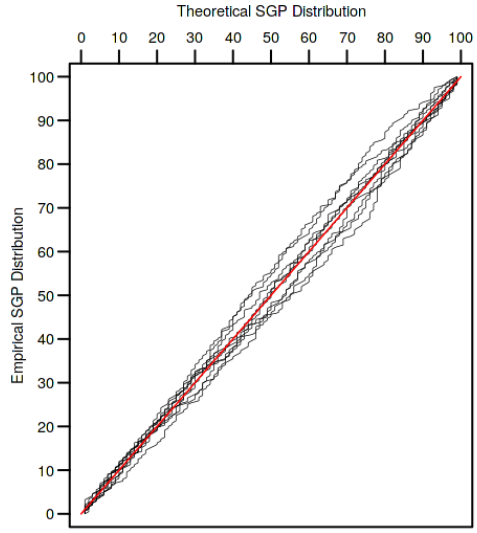
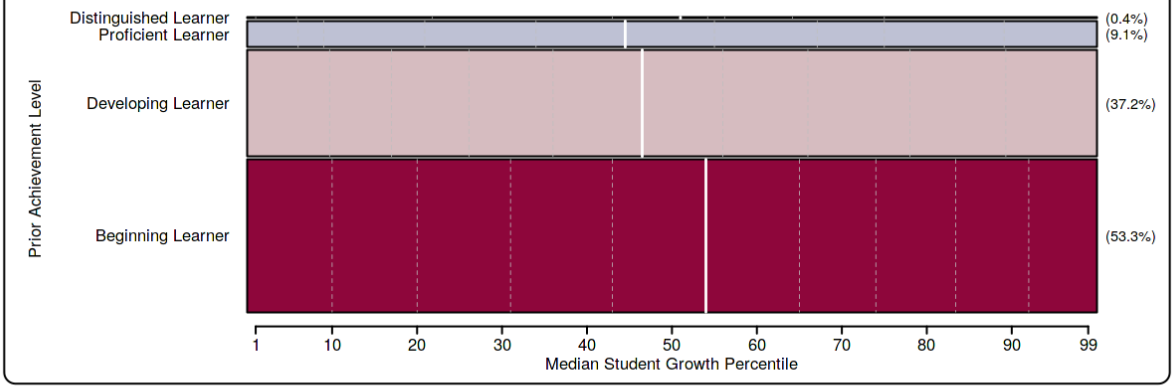


Fig. A.50: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2017 Grade 9 Lit - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX, Grade EOCT (N = 2,360)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,362)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[362,381]	96.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[575,588)	0.0	0.0	0.0	0.0	0.0	5.0	10.0	5.0	25.0	5.0	10.0	40.0	N = 20
	[588,641]	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	26.7	10.0	13.3	46.7	N = 30

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,417)	8.94	10.21	8.09	9.36	5.96	13.19	14.04	8.09	9.79	12.34	(10%)
2nd/[417,436)	8.21	11.11	8.70	10.63	9.66	12.56	8.21	11.59	11.59	7.73	(8.8%)
3rd/[436,450)	7.47	7.88	9.13	8.71	9.54	10.37	7.05	9.96	14.11	15.77	(10.2%)
4th/[450,459)	9.63	10.09	6.42	9.17	5.96	10.09	10.09	11.47	11.93	15.14	(9.2%)
5th/[459,468)	11.44	7.96	10.45	6.97	7.96	7.96	6.97	10.95	14.43	14.93	(8.5%)
6th/[468,481)	10.93	10.60	12.58	11.26	10.93	9.60	8.61	8.28	6.95	10.26	(12.8%)
7th/[481,491)	8.09	13.62	7.23	11.49	7.23	11.06	8.09	10.64	10.64	11.91	(10%)
8th/[491,505)	10.33	11.57	9.92	10.33	9.92	9.50	10.33	9.92	7.02	11.16	(10.3%)
9th/[505,524)	10.79	12.03	11.20	15.35	7.05	6.64	10.37	8.30	11.62	6.64	(10.2%)
10th/[524,615]	22.27	7.56	5.88	12.61	7.98	7.98	7.56	14.71	3.36	10.08	(10.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

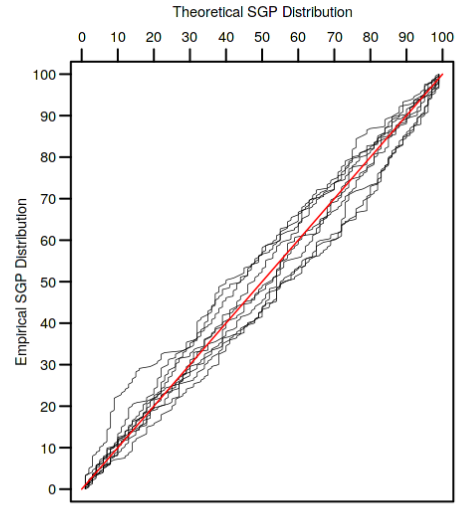
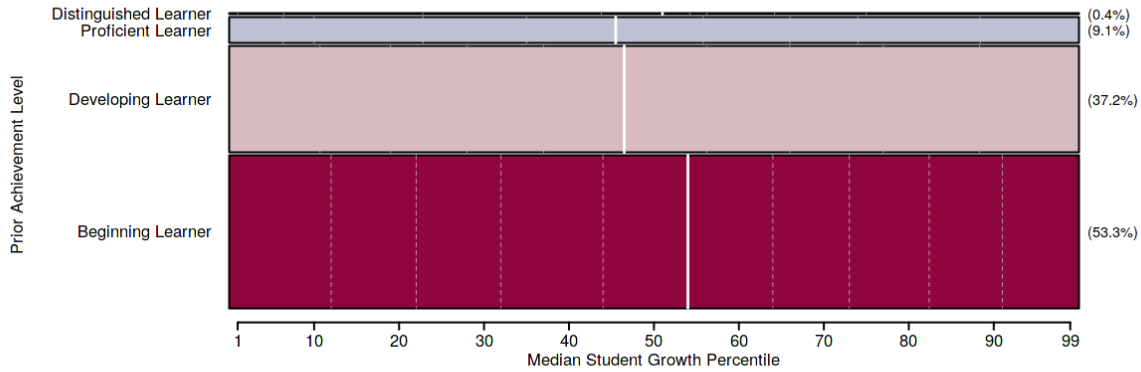


Fig. A.51: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2017 Grade 9 Lit - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX Ranked, Grade EOCT (N = 2,360)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,362)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[362,381]	96.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[575,588)	0.0	0.0	0.0	0.0	0.0	5.0	10.0	15.0	20.0	0.0	10.0	40.0	N = 20
	[588,641]	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	26.7	16.7	16.7	36.7	N = 30

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,417)	6.81	9.79	10.21	8.51	7.23	13.19	14.89	8.94	10.21	10.21	(10%)
2nd/[417,436)	8.21	9.18	10.63	7.25	14.01	11.59	9.18	12.08	10.14	7.73	(8.8%)
3rd/[436,450)	7.05	6.22	9.96	9.54	9.96	10.37	8.71	9.13	14.94	14.11	(10.2%)
4th/[450,459)	9.17	7.80	9.17	7.34	9.63	8.26	10.55	11.47	11.47	15.14	(9.2%)
5th/[459,468)	9.95	8.46	10.45	7.46	9.45	7.46	7.46	12.44	12.94	13.93	(8.5%)
6th/[468,481)	9.93	8.94	14.24	10.60	12.58	10.26	8.61	7.62	7.62	9.60	(12.8%)
7th/[481,491)	7.23	11.91	8.51	11.91	8.09	12.34	7.23	12.34	10.21	10.21	(10%)
8th/[491,505)	10.33	10.74	10.74	7.02	14.05	8.68	14.05	6.20	7.44	10.74	(10.3%)
9th/[505,524)	10.37	11.20	12.03	15.35	7.47	7.88	9.96	9.13	9.96	6.64	(10.2%)
10th/[524,615]	17.65	11.76	4.62	13.03	9.24	9.24	8.82	12.61	4.62	8.40	(10.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

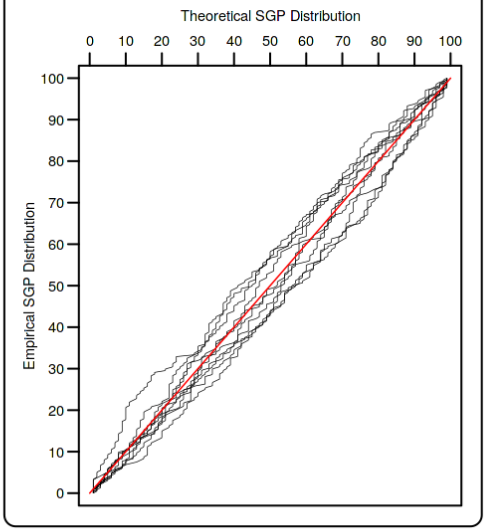
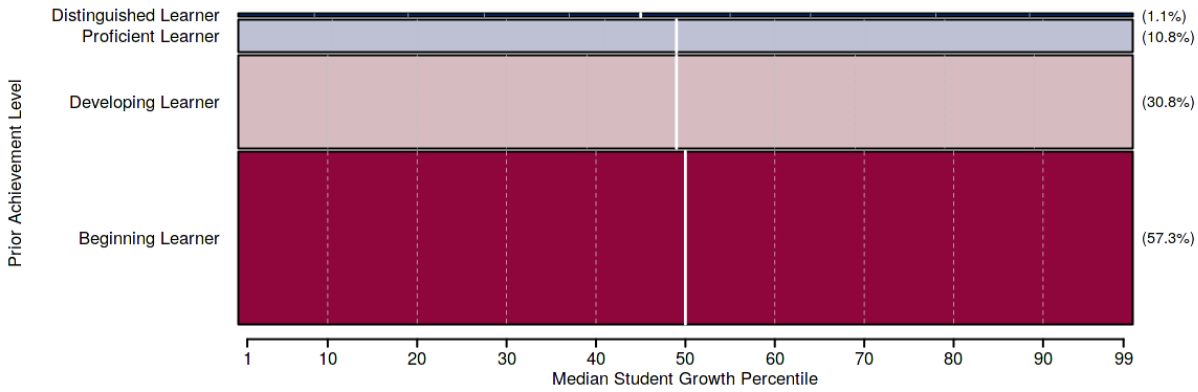


Fig. A.52: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 Grade 9 Lit - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP, Grade EOCT (N = 5,067)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,326)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[326,354]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
Highest OSS:	[619,635)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	44.4	5.6	27.8	N = 18
	[635,735]	2.9	0.0	0.0	0.0	0.0	0.0	0.0	2.9	11.4	14.3	25.7	42.9	N = 35

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,414)	10.40	11.20	10.60	9.80	10.80	10.20	10.00	9.20	8.60	9.20	(9.9%)
2nd/[414,431)	11.11	9.83	9.40	10.68	10.26	9.19	9.40	10.68	10.68	8.76	(9.2%)
3rd/[431,445)	6.99	10.21	12.29	11.91	9.83	8.70	10.78	10.40	10.02	8.88	(10.4%)
4th/[445,455)	9.67	8.23	7.82	8.02	8.23	10.70	11.52	9.67	12.14	13.99	(9.6%)
5th/[455,466)	10.32	8.82	9.19	9.38	8.82	11.63	9.57	8.82	10.69	12.76	(10.5%)
6th/[466,477)	9.74	10.54	9.54	8.35	11.53	11.33	8.15	11.13	8.55	11.13	(9.9%)
7th/[477,489)	8.28	11.52	9.49	9.90	10.30	9.49	12.12	9.29	9.29	10.30	(9.8%)
8th/[489,503)	10.28	9.07	12.30	12.10	10.89	8.27	8.27	10.28	9.27	9.27	(9.8%)
9th/[503,530)	9.67	10.40	9.12	10.40	8.58	10.40	10.40	10.22	10.95	9.85	(10.8%)
10th/[530,656]	9.82	9.82	10.22	9.63	11.00	9.63	10.22	10.41	9.43	9.82	(10%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

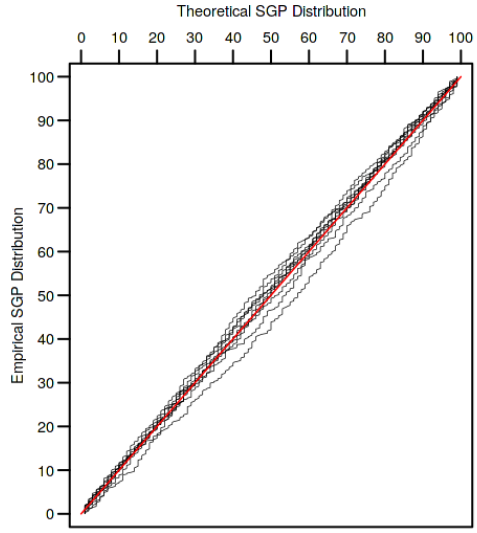
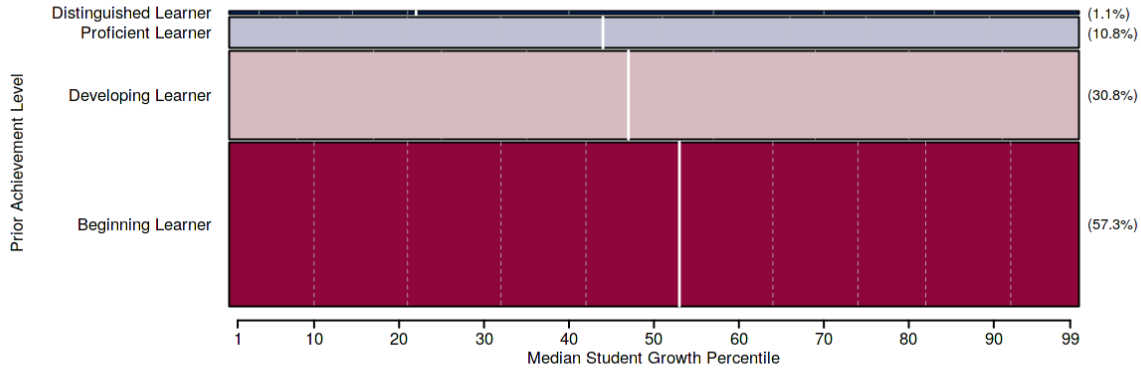


Fig. A.53: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 Grade 9 Lit - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX, Grade EOCT (N = 5,067)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,326)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[326,354]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
Highest OSS:	[619,635)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	16.7	27.8	5.6	27.8	N = 18
	[635,735]	2.9	0.0	0.0	0.0	0.0	0.0	0.0	5.7	17.1	14.3	25.7	34.3	N = 35

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,414)	9.00	9.40	8.00	12.00	7.40	12.20	8.40	13.60	9.40	10.60	(9.9%)
2nd/[414,431)	10.04	9.19	8.12	9.19	8.76	9.83	9.62	11.11	13.03	11.11	(9.2%)
3rd/[431,445)	6.62	9.07	10.59	10.96	10.21	8.51	10.02	9.26	13.23	11.53	(10.4%)
4th/[445,455)	9.47	9.26	6.58	6.58	9.47	8.02	10.49	9.26	13.79	17.08	(9.6%)
5th/[455,466)	11.07	9.01	7.88	9.94	8.44	11.07	7.88	10.32	9.76	14.63	(10.5%)
6th/[466,477)	11.53	9.94	9.34	8.95	11.33	10.14	7.36	10.74	8.55	12.13	(9.9%)
7th/[477,489)	11.11	11.52	10.71	9.29	9.09	8.28	12.12	7.88	8.08	11.92	(9.8%)
8th/[489,503)	12.10	13.10	10.28	12.10	8.87	8.27	7.46	8.87	7.86	11.09	(9.8%)
9th/[503,530)	13.32	11.68	8.94	10.58	8.39	10.40	9.31	6.57	8.39	12.41	(10.8%)
10th/[530,656]	17.88	11.00	9.43	10.02	10.61	7.27	10.61	7.47	6.48	9.23	(10%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

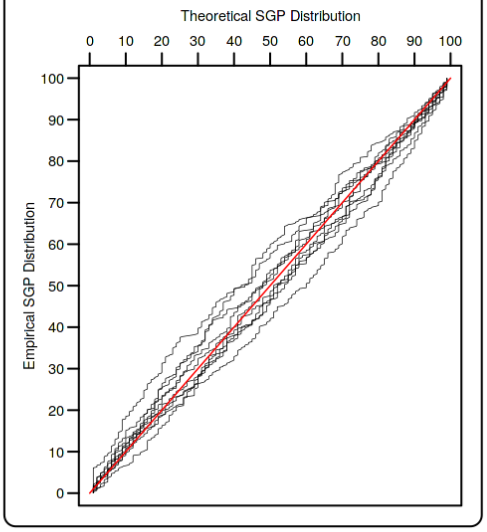
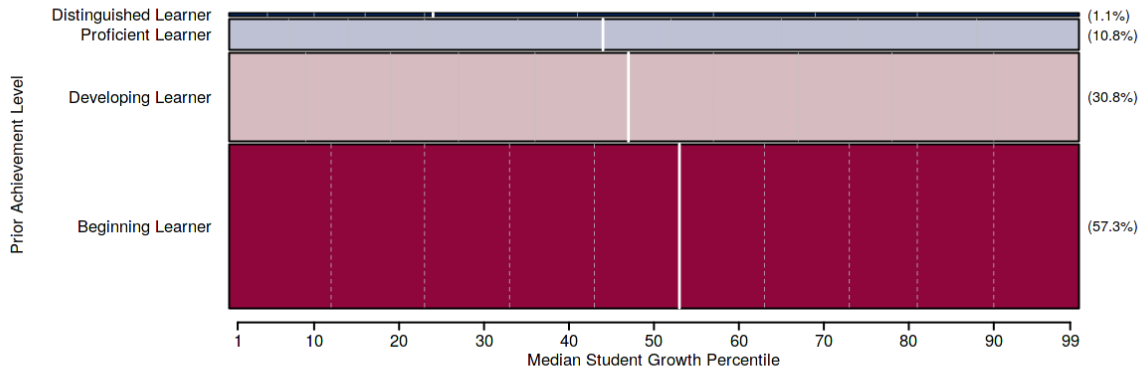


Fig. A.54: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2018 Grade 9 Lit - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX Ranked, Grade EOCT (N = 5,067)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,326)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[326,354]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
Highest OSS:	[619,635)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	22.2	22.2	5.6	27.8	N = 18
	[635,735]	0.0	2.9	0.0	0.0	0.0	0.0	0.0	11.4	11.4	20.0	22.9	31.4	N = 35

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,414)	7.20	9.20	9.20	11.20	9.00	12.60	9.20	14.00	9.20	9.20	(9.9%)
2nd/[414,431)	8.55	10.04	6.84	9.83	9.83	10.04	10.04	11.75	13.68	9.40	(9.2%)
3rd/[431,445)	6.05	7.94	11.34	10.96	11.15	8.51	10.78	11.34	11.72	10.21	(10.4%)
4th/[445,455)	7.61	8.85	7.00	8.02	9.67	8.64	12.14	10.70	13.37	13.99	(9.6%)
5th/[455,466)	9.94	8.82	8.44	10.32	8.44	11.44	8.63	10.88	10.13	12.95	(10.5%)
6th/[466,477)	9.34	10.14	10.34	8.95	11.93	10.74	8.75	10.54	9.15	10.14	(9.9%)
7th/[477,489)	8.89	11.72	11.31	7.27	12.32	8.89	12.53	8.48	8.69	9.90	(9.8%)
8th/[489,503)	11.29	9.48	13.10	12.30	10.08	9.88	6.85	9.68	6.85	10.48	(9.8%)
9th/[503,530)	12.04	10.04	11.50	10.40	8.21	11.13	10.40	6.02	9.85	10.40	(10.8%)
10th/[530,656]	14.34	13.56	10.22	9.63	10.81	7.66	11.20	7.27	7.07	8.25	(10%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

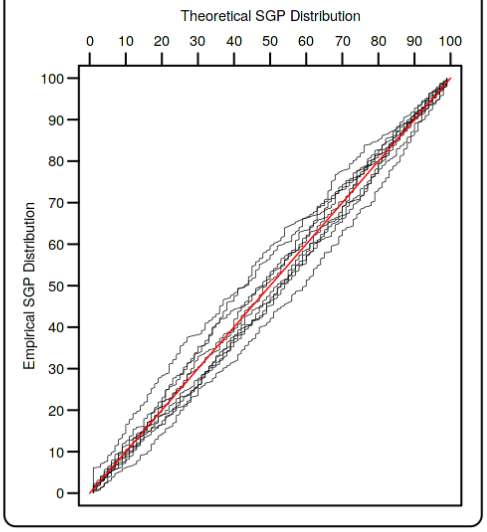
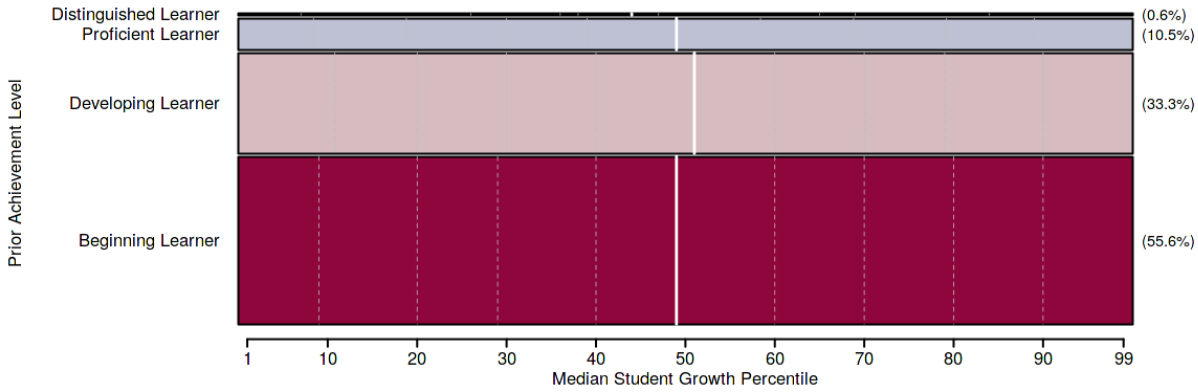


Fig. A.55: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2019 Grade 9 Lit - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP, Grade EOCT (N = 1,768)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,364)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
	[364,387]	75.9	24.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
Highest OSS:	[561,575)	0.0	0.0	0.0	0.0	0.0	8.7	8.7	17.4	17.4	21.7	4.3	21.7	N = 23
	[575,695]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	7.4	22.2	18.5	48.1	N = 27

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[255,414)	11.38	8.98	10.18	11.38	10.78	10.78	8.98	8.38	8.38	10.78	(9.4%)
2nd/[414,436)	8.02	11.76	9.63	9.63	8.02	8.56	10.70	11.76	13.90	8.02	(10.6%)
3rd/[436,448)	9.25	10.40	10.40	7.51	12.14	10.98	10.98	11.56	5.78	10.98	(9.8%)
4th/[448,460)	10.29	11.43	10.29	10.86	7.43	10.29	8.00	10.86	10.29	10.29	(9.9%)
5th/[460,468)	8.72	7.56	10.47	8.72	11.05	7.56	13.37	8.14	11.63	12.79	(9.7%)
6th/[468,477)	12.42	7.45	9.32	11.80	10.56	11.80	7.45	11.18	8.07	9.94	(9.1%)
7th/[477,490)	7.87	9.55	10.11	12.36	10.67	8.43	11.24	7.87	11.80	10.11	(10.1%)
8th/[490,506)	11.22	11.22	9.18	8.67	9.69	11.22	9.69	10.71	8.16	10.20	(11.1%)
9th/[506,528)	6.70	10.61	11.73	10.61	8.94	10.06	8.94	10.06	11.73	10.61	(10.1%)
10th/[528,611]	12.22	10.00	8.33	10.56	10.00	10.00	10.56	9.44	9.44	9.44	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

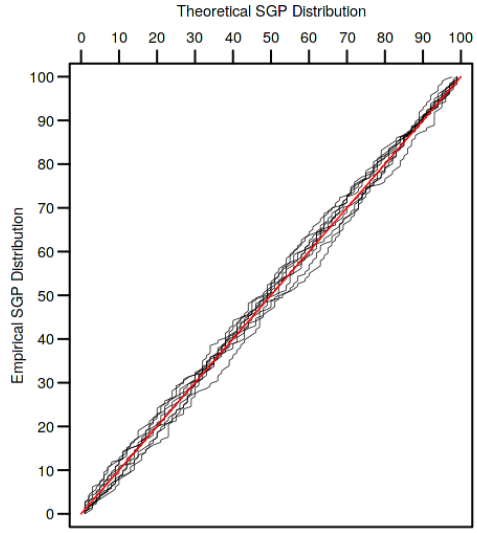
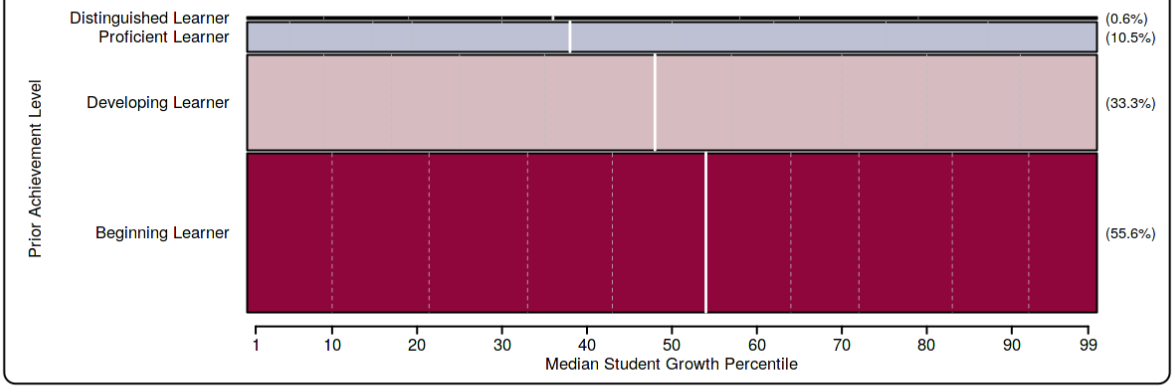


Fig. A.56: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2019 Grade 9 Lit - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX, Grade EOCT (N = 1,768)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,364)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
	[364,387]	69.0	31.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
Highest OSS:	[561,575)	0.0	0.0	0.0	0.0	8.7	8.7	4.3	30.4	0.0	26.1	0.0	21.7	N = 23
	[575,695]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	7.4	25.9	7.4	48.1	N = 27

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[255,414)	10.78	5.99	9.58	10.18	8.38	14.37	12.57	7.78	9.58	10.78	(9.4%)
2nd/[414,436)	7.49	8.56	10.70	9.09	5.88	9.09	11.23	13.90	11.76	12.30	(10.6%)
3rd/[436,448)	7.51	10.40	9.83	7.51	6.94	13.29	10.98	11.56	9.83	12.14	(9.8%)
4th/[448,460)	10.86	9.71	9.71	10.29	9.14	4.57	11.43	9.71	12.00	12.57	(9.9%)
5th/[460,468)	8.72	8.72	8.14	8.14	11.05	8.72	12.21	9.30	11.63	13.37	(9.7%)
6th/[468,477)	14.91	6.21	9.32	11.18	11.18	9.32	8.07	11.18	6.83	11.80	(9.1%)
7th/[477,490)	10.67	8.43	12.36	10.67	11.24	5.62	10.11	7.87	11.80	11.24	(10.1%)
8th/[490,506)	15.31	8.67	9.18	11.73	8.67	10.71	7.14	10.71	6.63	11.22	(11.1%)
9th/[506,528)	8.94	11.73	12.29	10.61	8.38	11.17	5.59	9.50	10.61	11.17	(10.1%)
10th/[528,611]	16.67	15.00	7.78	12.22	7.78	9.44	8.89	5.00	10.00	7.22	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

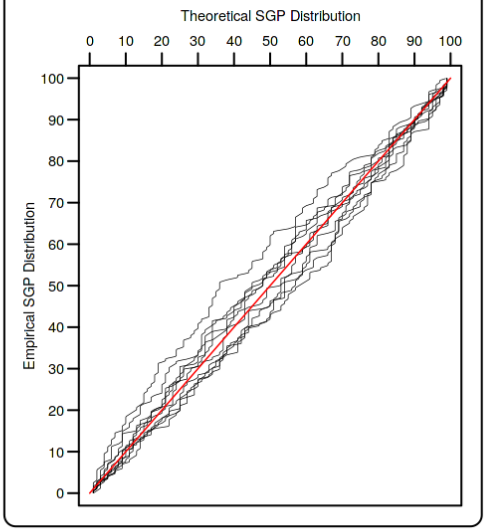
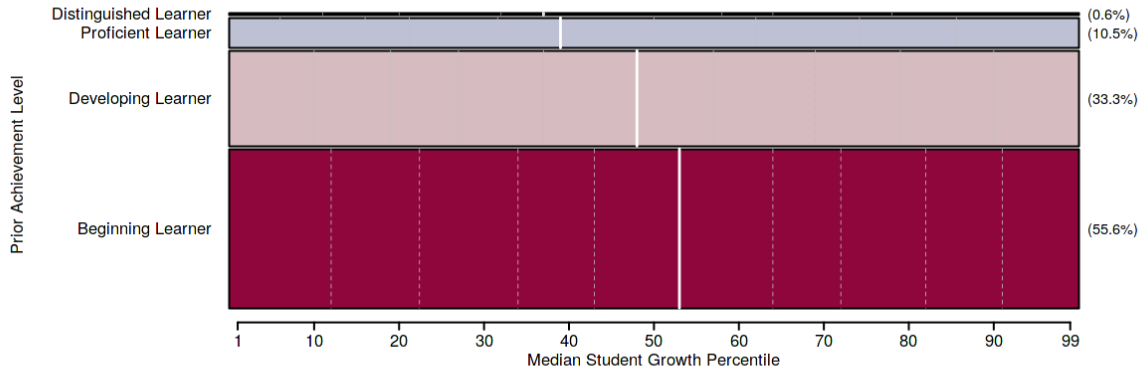


Fig. A.57: Goodness of Fit Plot for 2019 Grade 9 Lit (Priors 2019 Grade 9 Lit - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Grade 9 Lit SGP SIMEX Ranked, Grade EOCT (N = 1,768)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

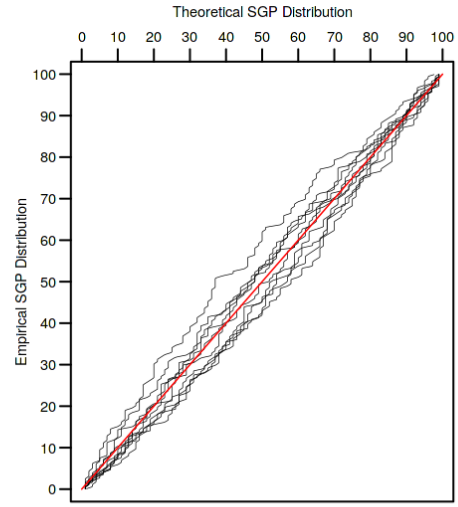
Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[220,364)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
	[364,387]	62.1	24.1	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
Highest OSS:	[561,575)	0.0	0.0	0.0	0.0	8.7	8.7	4.3	30.4	4.3	21.7	0.0	21.7	N = 23
	[575,695]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	11.1	25.9	7.4	44.4	N = 27

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[255,414)	7.78	8.38	8.98	8.38	11.38	14.37	13.17	8.38	8.98	10.18	(9.4%)
2nd/[414,436)	5.88	9.63	8.02	11.23	6.95	9.09	11.23	14.97	12.83	10.16	(10.6%)
3rd/[436,448)	7.51	9.83	9.83	7.51	7.51	15.03	10.40	10.40	9.83	12.14	(9.8%)
4th/[448,460)	10.29	9.71	10.29	9.71	9.71	4.57	12.00	9.14	13.14	11.43	(9.9%)
5th/[460,468)	7.56	8.14	9.30	8.72	11.05	8.72	12.21	9.30	12.21	12.79	(9.7%)
6th/[468,477)	12.42	8.07	9.94	8.70	13.66	9.94	8.70	10.56	8.07	9.94	(9.1%)
7th/[477,490)	8.43	10.11	12.36	10.11	12.36	5.62	10.67	8.99	10.11	11.24	(10.1%)
8th/[490,506)	12.24	11.22	9.18	10.20	10.71	11.22	7.14	10.71	6.63	10.71	(11.1%)
9th/[506,528)	7.26	12.85	11.17	11.73	8.94	11.73	6.15	10.61	9.50	10.06	(10.1%)
10th/[528,611]	15.00	11.67	11.11	13.89	7.78	9.44	8.89	6.67	8.89	6.67	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles



3.2 American Literature

Fig. A.58: Goodness of Fit Plot for 2019 American Lit (Priors 2016 Grade 9 Lit - Uncorrected).

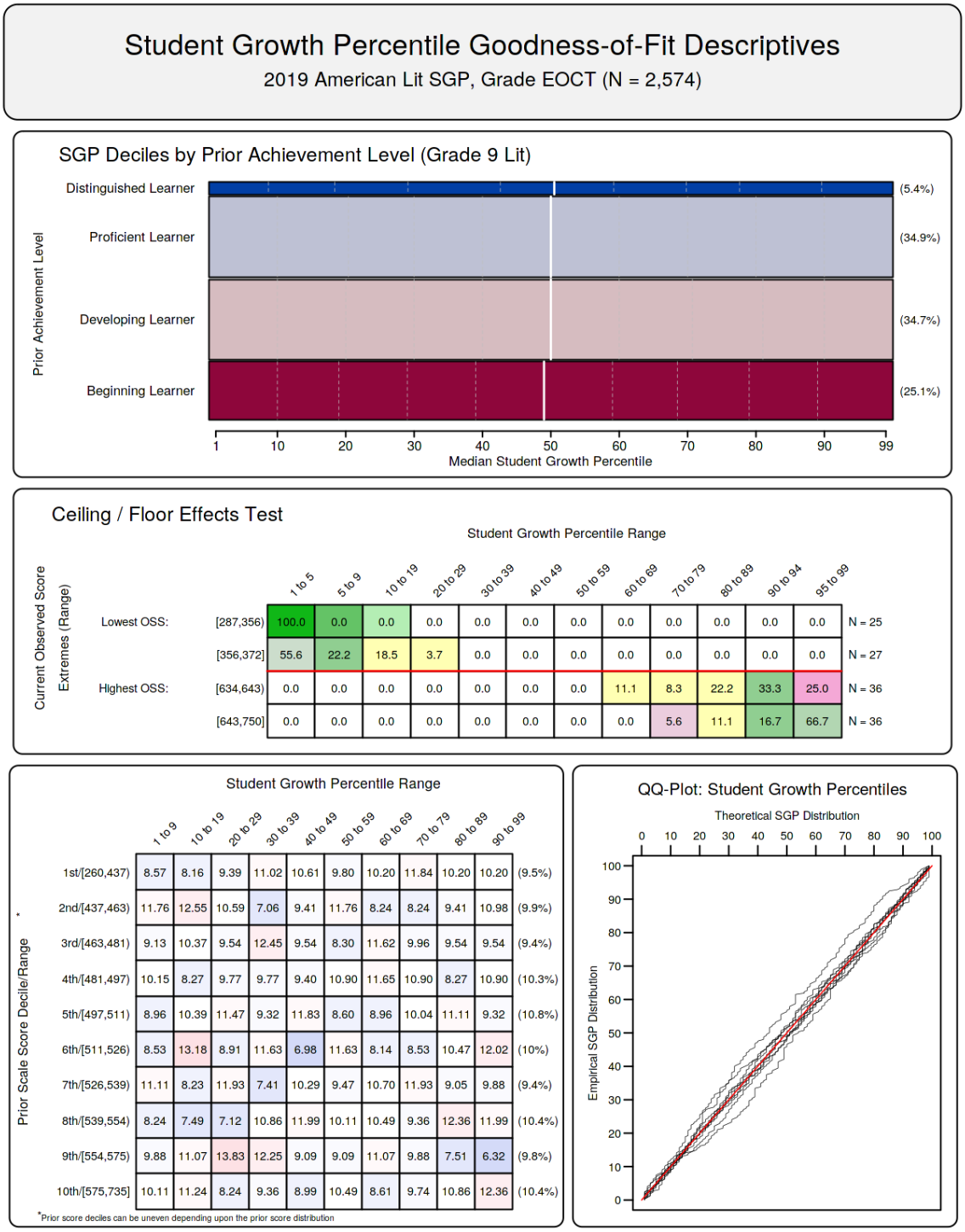
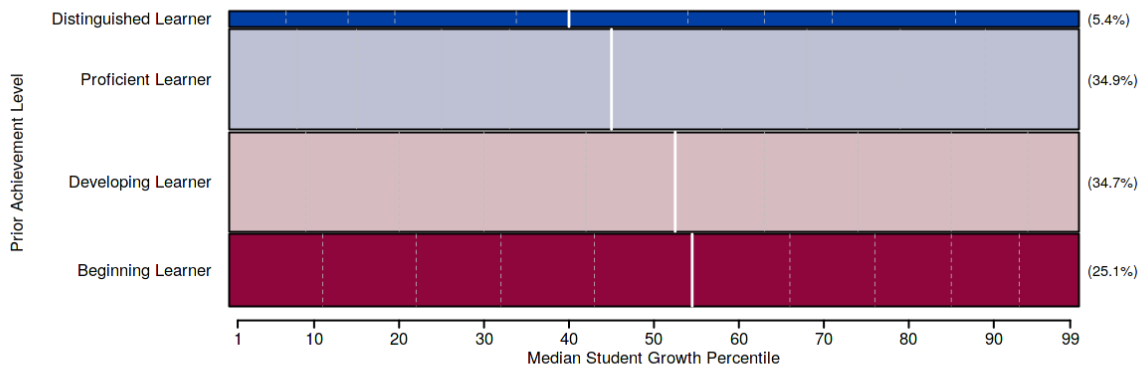


Fig. A.59: Goodness of Fit Plot for 2019 American Lit (Priors 2016 Grade 9 Lit - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX, Grade EOCT (N = 2,574)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[287,356)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[356,372]	48.1	18.5	22.2	3.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[634,643)	0.0	0.0	0.0	0.0	0.0	0.0	8.3	8.3	2.8	44.4	11.1	25.0	N = 36
	[643,750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	13.9	19.4	55.6	N = 36

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[260,437)	6.94	6.53	5.71	11.43	11.02	11.43	7.76	14.69	10.20	14.29	(9.5%)
2nd/[437,463)	10.59	12.16	10.20	6.67	5.49	12.94	9.80	8.24	7.84	16.08	(9.9%)
3rd/[463,481)	9.13	9.96	8.30	7.47	12.45	8.30	11.62	7.47	10.37	14.94	(9.4%)
4th/[481,497)	10.53	7.52	9.77	7.89	8.65	9.40	10.15	10.53	10.90	14.66	(10.3%)
5th/[497,511)	10.04	8.60	10.75	8.24	11.47	12.54	5.02	7.53	11.11	14.70	(10.8%)
6th/[511,526)	11.24	12.02	8.14	10.85	6.98	9.69	9.69	8.53	6.98	15.89	(10%)
7th/[526,539)	12.35	11.93	11.11	6.17	8.64	8.23	10.70	11.11	8.23	11.52	(9.4%)
8th/[539,554)	11.99	7.12	7.87	9.74	13.86	5.62	11.61	7.87	12.36	11.99	(10.4%)
9th/[554,575)	13.44	14.62	13.83	13.83	6.32	5.93	12.65	7.11	6.32	5.93	(9.8%)
10th/[575,735]	16.10	12.73	7.49	11.99	5.99	8.99	7.12	8.99	12.36	8.24	(10.4%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

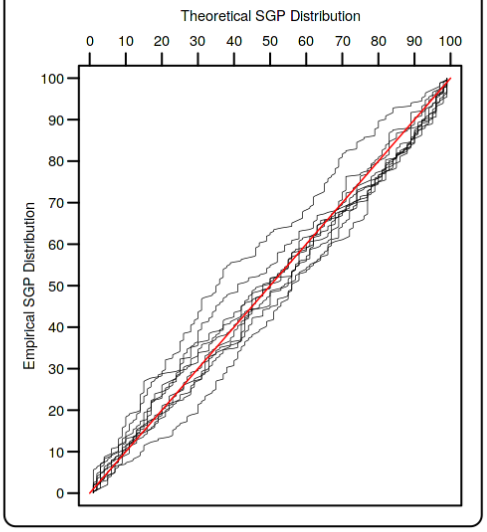
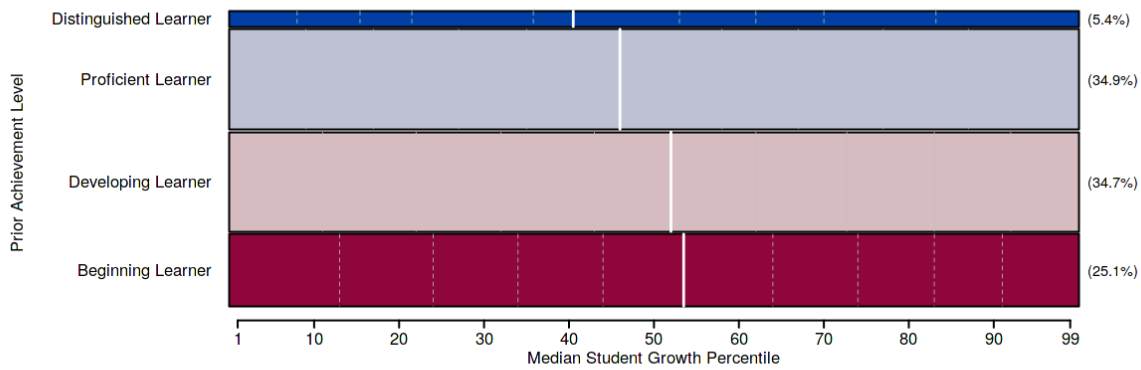


Fig. A.60: Goodness of Fit Plot for 2019 American Lit (Priors 2016 Grade 9 Lit - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX Ranked, Grade EOCT (N = 2,574)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[287,356)	92.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[356,372]	33.3	33.3	14.8	11.1	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[634,643)	0.0	0.0	0.0	0.0	0.0	0.0	8.3	11.1	0.0	44.4	11.1	25.0	N = 36
	[643,750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	13.9	27.8	47.2	N = 36

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[260,437)	6.94	5.31	6.53	11.02	11.84	12.24	7.35	17.14	9.80	11.84	(9.5%)
2nd/[437,463)	9.41	9.80	12.55	6.67	6.67	15.29	7.45	9.41	9.41	13.33	(9.9%)
3rd/[463,481)	6.64	8.71	9.54	9.96	12.45	9.96	10.79	7.47	13.69	10.79	(9.4%)
4th/[481,497)	8.65	7.14	10.90	8.65	9.02	10.15	10.53	12.41	12.03	10.53	(10.3%)
5th/[497,511)	8.60	9.32	11.47	6.81	12.90	12.54	6.45	10.39	10.04	11.47	(10.8%)
6th/[511,526)	8.91	11.63	10.47	11.24	6.98	10.08	9.69	8.91	9.69	12.40	(10%)
7th/[526,539)	11.93	9.05	13.99	5.76	9.47	9.05	11.93	11.52	7.82	9.47	(9.4%)
8th/[539,554)	9.36	8.24	7.87	9.74	15.36	5.62	12.73	7.87	11.24	11.99	(10.4%)
9th/[554,575)	11.86	15.81	11.46	15.42	7.51	6.32	13.83	7.51	4.35	5.93	(9.8%)
10th/[575,735]	13.48	12.36	6.74	14.98	6.74	8.99	9.36	7.87	11.24	8.24	(10.4%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

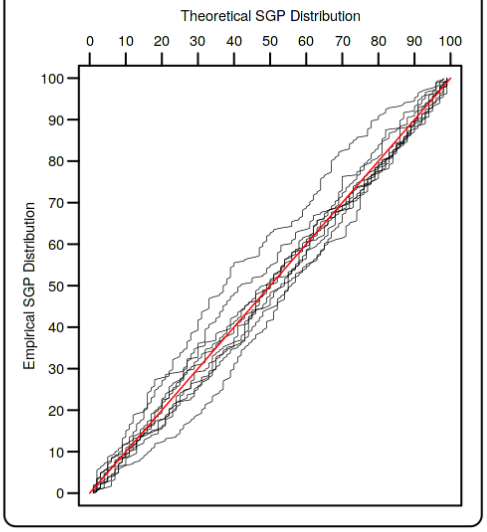
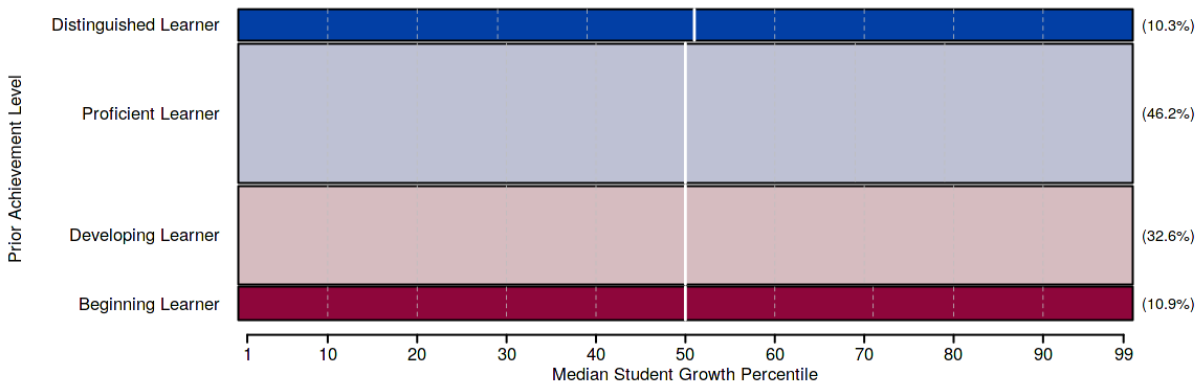


Fig. A.61: Goodness of Fit Plot for 2019 American Lit (Priors 2017 Grade 9 Lit - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP, Grade EOCT (N = 96,430)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[190,287)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
	[287,316]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
Highest OSS:	[750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 158

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,471)	9.21	9.76	10.06	10.29	10.42	9.92	9.21	10.12	10.33	10.68	(10%)
2nd/[471,491)	9.99	10.66	10.52	8.55	9.94	9.78	11.33	9.95	9.35	9.94	(9.1%)
3rd/[491,506)	9.48	9.84	8.94	11.62	8.78	11.39	9.96	10.37	8.79	10.83	(10.9%)
4th/[506,519)	9.22	9.50	11.04	9.06	11.94	8.09	8.73	8.95	12.55	10.92	(9.5%)
5th/[519,530)	9.32	11.10	9.32	10.43	10.79	8.33	9.66	11.61	9.24	10.20	(9.5%)
6th/[530,540)	9.99	9.79	10.30	10.03	7.90	12.85	10.27	8.55	9.93	10.39	(9.9%)
7th/[540,552)	9.69	10.50	8.17	9.84	10.50	9.18	11.24	10.93	9.27	10.68	(9.4%)
8th/[552,570)	10.01	8.92	11.89	10.43	10.66	9.51	9.23	9.71	9.37	10.28	(11.7%)
9th/[570,591)	8.80	10.77	9.88	9.07	10.28	10.12	10.38	10.40	10.18	10.12	(9.9%)
10th/[591,735]	9.97	10.12	11.01	9.14	9.07	10.04	9.91	10.19	10.06	10.48	(10.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

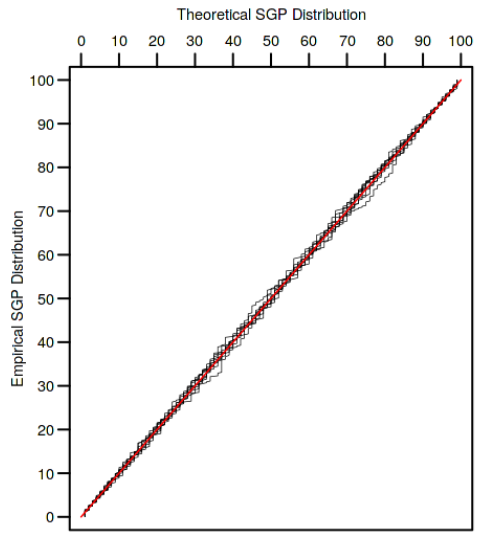
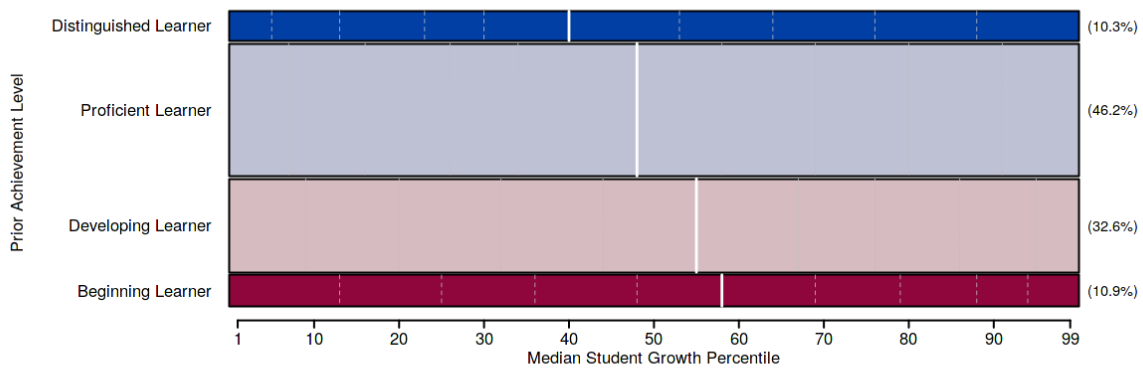


Fig. A.62: Goodness of Fit Plot for 2019 American Lit (Priors 2017 Grade 9 Lit - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX, Grade EOCT (N = 96,430)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[190,287)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
	[287,316]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
Highest OSS:	[750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 158

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,471)	7.57	7.75	7.97	8.96	9.48	9.25	9.68	10.01	12.64	16.68	(10%)
2nd/[471,491)	9.17	9.25	9.03	7.75	7.96	9.07	9.17	12.03	11.01	15.56	(9.1%)
3rd/[491,506)	10.32	8.66	7.78	8.74	9.84	8.21	10.74	9.95	8.84	16.90	(10.9%)
4th/[506,519)	10.70	7.22	10.74	8.66	8.75	9.45	9.26	6.88	11.36	16.99	(9.5%)
5th/[519,530)	12.96	8.55	8.09	9.10	11.52	7.71	6.56	12.30	9.69	13.53	(9.5%)
6th/[530,540)	13.17	8.95	12.08	5.98	10.33	7.12	11.56	8.02	10.06	12.74	(9.9%)
7th/[540,552)	11.87	9.49	9.01	8.01	10.63	10.88	8.70	9.87	9.70	11.83	(9.4%)
8th/[552,570)	13.78	9.33	12.29	8.75	11.41	10.36	5.74	8.78	7.90	11.67	(11.7%)
9th/[570,591)	15.15	11.04	12.30	6.42	9.64	8.86	10.53	8.67	8.01	9.37	(9.9%)
10th/[591,735]	16.80	12.00	10.98	10.33	7.43	8.47	8.53	8.42	9.27	7.77	(10.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

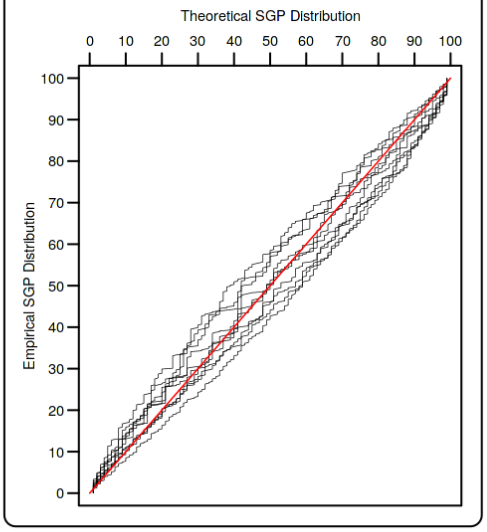
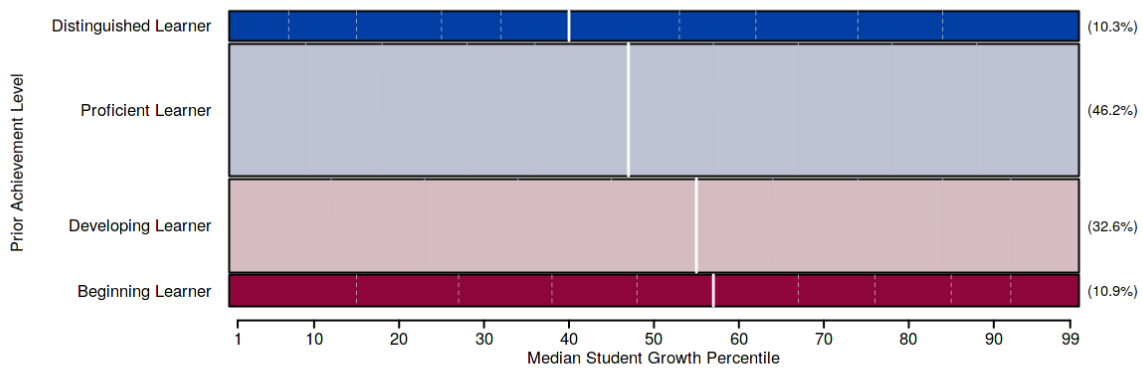


Fig. A.63: Goodness of Fit Plot for 2019 American Lit (Priors 2017 Grade 9 Lit - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX Ranked, Grade EOCT (N = 96,430)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[190,287)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
	[287,316]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
Highest OSS:	[750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 158

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,471)	6.41	6.91	8.97	9.38	9.97	10.51	10.85	10.27	13.48	13.25	(10%)
2nd/[471,491)	7.65	8.72	9.94	8.31	8.54	10.70	9.20	13.35	11.29	12.29	(9.1%)
3rd/[491,506)	7.80	8.46	9.70	9.40	9.98	9.51	9.87	11.37	10.71	13.19	(10.9%)
4th/[506,519)	9.17	7.15	9.45	11.51	8.78	9.64	10.41	8.80	12.06	13.02	(9.5%)
5th/[519,530)	8.82	12.01	6.56	11.31	11.52	7.81	9.53	10.65	10.39	11.41	(9.5%)
6th/[530,540)	10.19	11.48	10.03	7.58	11.21	8.45	12.80	9.05	8.96	10.24	(9.9%)
7th/[540,552)	9.60	11.36	8.05	9.21	10.78	10.92	12.74	8.82	8.86	9.66	(9.4%)
8th/[552,570)	11.10	10.21	13.83	9.00	11.41	10.56	8.46	10.56	6.75	8.11	(11.7%)
9th/[570,591)	10.48	11.85	12.42	10.17	9.64	11.69	7.79	9.22	9.89	6.84	(9.9%)
10th/[591,735]	13.03	11.65	10.38	14.80	7.70	10.25	9.68	7.79	8.32	6.41	(10.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

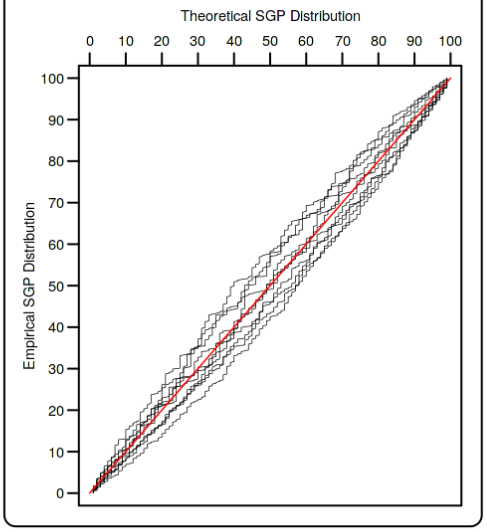
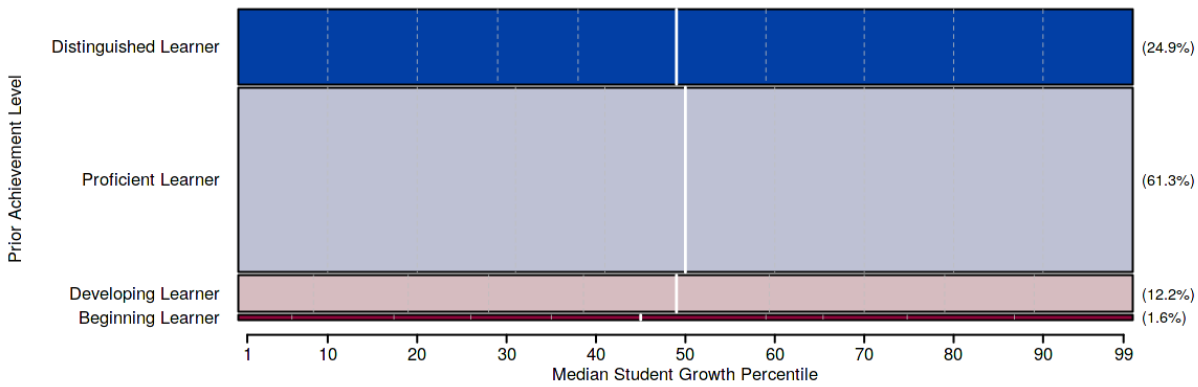


Fig. A.64: Goodness of Fit Plot for 2019 American Lit (Priors 2017 Grade 9 Lit, 2016 ELA Grade 7 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP, Grade EOCT (N = 4,049)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[319,424)	62.5	0.0	20.8	8.3	0.0	4.2	4.2	0.0	0.0	0.0	0.0	0.0	N = 24
	[424,440]	42.3	15.4	15.4	7.7	11.5	7.7	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
Highest OSS:	[698]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	11.1	25.0	61.1	N = 36
	(698,750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	9.1	9.1	78.8	N = 33

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[389,514)	10.47	9.95	9.69	10.47	9.95	10.21	9.69	8.64	10.73	10.21	(9.4%)
2nd/[514,530)	9.72	11.11	9.72	8.33	9.44	7.50	10.56	13.61	10.83	9.17	(8.9%)
3rd/[530,540)	10.58	10.32	8.73	12.17	9.52	11.11	10.85	8.20	8.20	10.32	(9.3%)
4th/[540,552)	7.68	7.68	11.00	8.92	11.62	10.17	9.54	10.79	10.79	11.83	(11.9%)
5th/[552,563)	9.87	11.95	11.17	12.47	10.39	8.83	10.65	6.23	7.01	11.43	(9.5%)
6th/[563,573)	11.01	10.78	9.86	7.34	9.40	10.78	10.09	10.32	12.16	8.26	(10.8%)
7th/[573,582)	9.70	9.09	8.79	9.39	13.03	10.91	8.18	10.91	10.91	9.09	(8.2%)
8th/[582,595)	8.53	10.28	9.41	11.16	8.97	10.07	10.50	10.28	8.53	12.25	(11.3%)
9th/[595,615)	8.82	9.63	10.70	12.03	8.29	8.29	9.36	12.03	11.23	9.63	(9.2%)
10th/[615,735]	10.97	9.89	10.32	8.39	10.32	10.75	10.32	9.25	9.25	10.54	(11.5%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

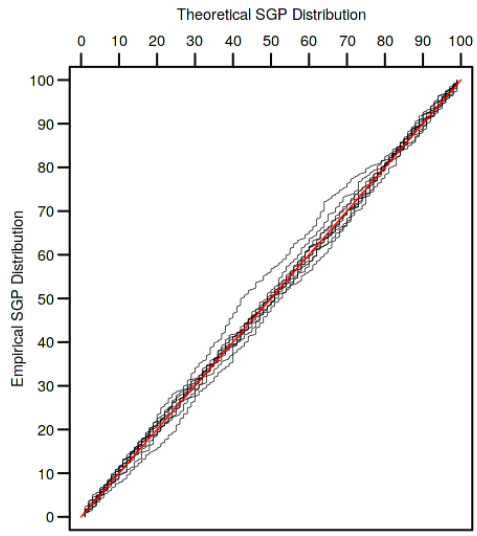
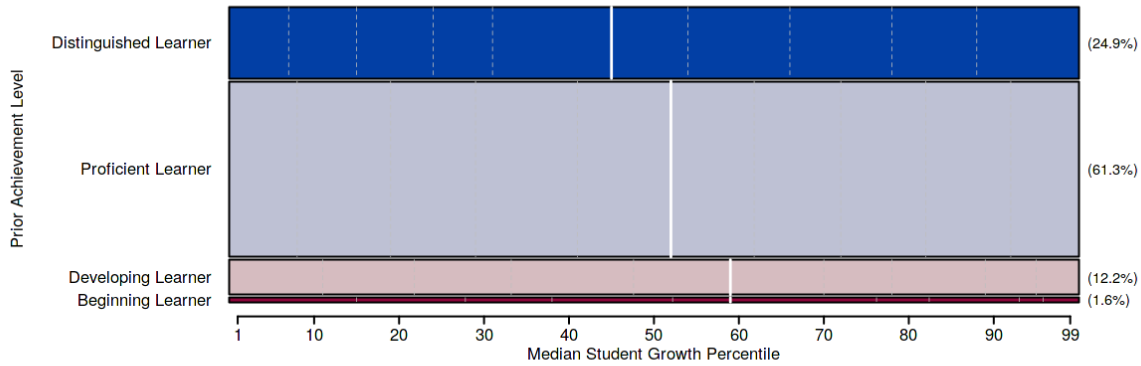


Fig. A.65: Goodness of Fit Plot for 2019 American Lit (Priors 2017 Grade 9 Lit, 2016 ELA Grade 7 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX, Grade EOCT (N = 4,049)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[319,424)	45.8	0.0	16.7	8.3	16.7	4.2	0.0	4.2	0.0	4.2	0.0	0.0	N = 24
	[424,440]	38.5	15.4	19.2	0.0	11.5	0.0	7.7	3.8	0.0	0.0	0.0	3.8	N = 26
Highest OSS:	[698]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	19.4	22.2	55.6	N = 36
	(698,750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	12.1	9.1	75.8	N = 33

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[389,514)	6.81	10.73	4.97	9.95	7.07	10.99	6.54	13.35	7.59	21.99	(9.4%)
2nd/[514,530)	9.44	9.17	7.78	8.33	7.50	10.00	5.28	12.22	13.33	16.94	(8.9%)
3rd/[530,540)	11.38	7.67	9.52	9.26	8.20	10.85	11.11	8.47	9.52	14.02	(9.3%)
4th/[540,552)	8.09	8.09	10.58	6.85	10.17	10.37	8.92	10.79	11.41	14.73	(11.9%)
5th/[552,563)	12.47	12.21	9.09	11.69	10.65	8.05	9.09	5.45	8.57	12.73	(9.5%)
6th/[563,573)	13.99	10.55	8.49	8.03	8.03	10.32	9.86	10.09	11.24	9.40	(10.8%)
7th/[573,582)	11.82	10.61	10.61	7.88	10.91	9.70	8.48	8.79	11.21	10.00	(8.2%)
8th/[582,595)	12.69	10.72	11.60	6.35	11.60	9.19	8.10	9.85	7.44	12.47	(11.3%)
9th/[595,615)	12.03	10.43	12.57	10.43	8.29	7.75	9.63	9.89	9.63	9.36	(9.2%)
10th/[615,735]	16.34	9.89	12.47	7.53	9.68	10.11	7.74	7.74	10.32	8.17	(11.5%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

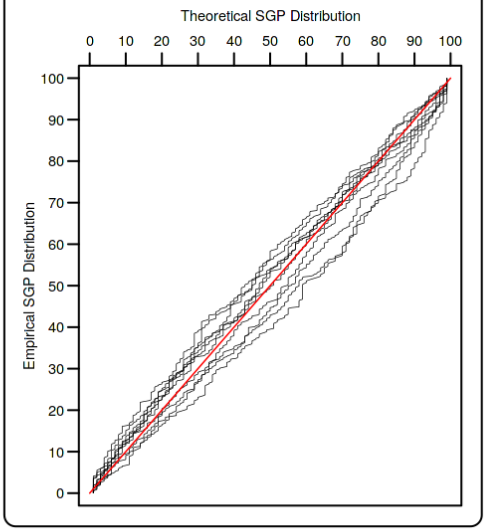
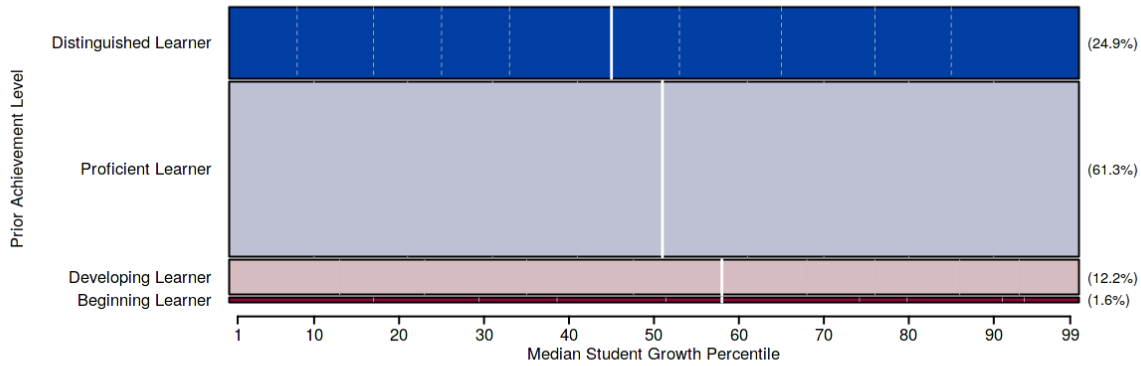


Fig. A.66: Goodness of Fit Plot for 2019 American Lit (Priors 2017 Grade 9 Lit, 2016 ELA Grade 7 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX Ranked, Grade EOCT (N = 4,049)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[319,424)	41.7	4.2	12.5	12.5	16.7	4.2	0.0	4.2	0.0	4.2	0.0	0.0	N = 24
	[424,440]	34.6	7.7	30.8	0.0	7.7	3.8	7.7	3.8	0.0	0.0	0.0	3.8	N = 26
Highest OSS:	[698]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	27.8	27.8	41.7	N = 36
	(698,750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	15.2	9.1	72.7	N = 33

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[389,514)	5.50	9.69	6.02	10.47	7.85	11.52	9.16	10.99	10.21	18.59	(9.4%)
2nd/[514,530)	7.78	8.89	8.33	9.72	8.06	9.44	8.33	11.94	14.72	12.78	(8.9%)
3rd/[530,540)	8.73	8.73	9.79	10.05	8.73	11.90	11.90	9.26	9.52	11.38	(9.3%)
4th/[540,552)	7.26	7.26	9.75	8.92	10.79	11.00	9.13	12.24	11.41	12.24	(11.9%)
5th/[552,563)	9.35	12.73	9.87	12.73	11.69	8.57	9.35	6.49	8.31	10.91	(9.5%)
6th/[563,573)	11.70	10.09	10.78	7.57	9.17	10.78	10.32	11.01	11.47	7.11	(10.8%)
7th/[573,582)	10.61	8.79	11.52	10.00	10.91	9.70	11.52	8.48	9.70	8.79	(8.2%)
8th/[582,595)	9.63	11.38	11.60	8.75	11.82	9.19	10.28	10.07	7.44	9.85	(11.3%)
9th/[595,615)	10.16	10.43	12.83	11.50	8.82	8.02	11.23	10.96	8.56	7.49	(9.2%)
10th/[615,735]	13.33	11.61	9.89	10.75	12.04	8.60	9.89	7.96	9.03	6.88	(11.5%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

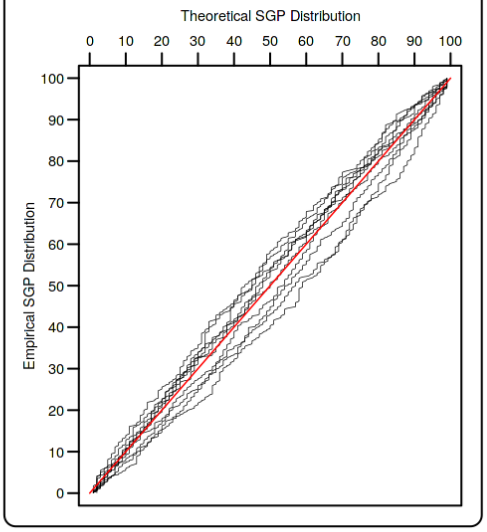
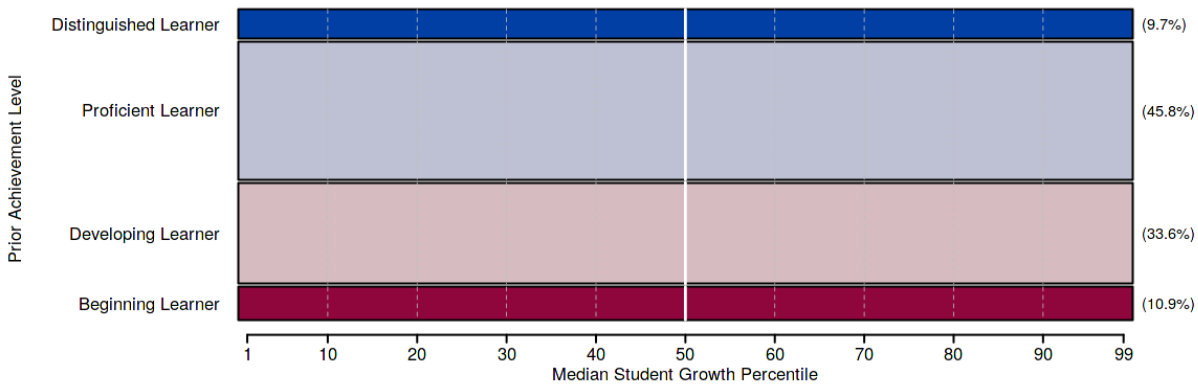


Fig. A.67: Goodness of Fit Plot for 2019 American Lit (Priors 2017 Grade 9 Lit, 2016 ELA Grade 8 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP, Grade EOCT (N = 87,035)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[190,296)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
	[296,319]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
Highest OSS:	[750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 128

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,471)	9.20	10.07	9.93	10.24	9.95	9.88	9.98	9.83	10.19	10.72	(10%)
2nd/[471,491)	10.02	9.89	10.33	9.84	9.75	10.21	10.03	10.28	9.59	10.07	(9.3%)
3rd/[491,505)	9.54	10.24	9.58	9.70	10.58	10.21	10.01	9.87	9.87	10.41	(9.5%)
4th/[505,516)	9.31	9.84	10.31	10.18	9.79	9.55	9.94	9.98	10.31	10.79	(10.9%)
5th/[516,529)	8.97	9.67	10.04	10.70	9.48	10.10	9.75	10.47	10.21	10.61	(8%)
6th/[529,539)	9.74	10.69	9.77	9.64	10.21	9.80	10.08	10.00	9.78	10.28	(10.4%)
7th/[539,552)	9.85	9.74	9.72	9.29	10.40	10.25	10.50	9.71	9.99	10.54	(11.3%)
8th/[552,566)	9.74	9.24	10.64	10.45	9.78	10.54	9.47	9.60	9.89	10.64	(9.3%)
9th/[566,586)	9.26	10.48	10.13	10.21	9.98	9.25	10.14	10.39	10.07	10.10	(10.1%)
10th/[586,735]	9.40	10.04	9.74	9.94	9.93	10.26	10.02	10.02	9.96	10.68	(11.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

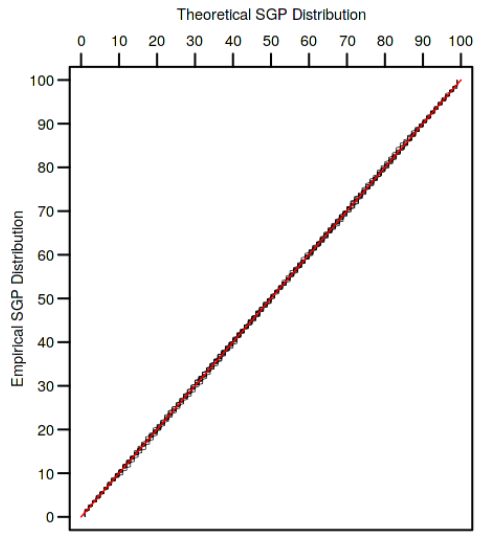
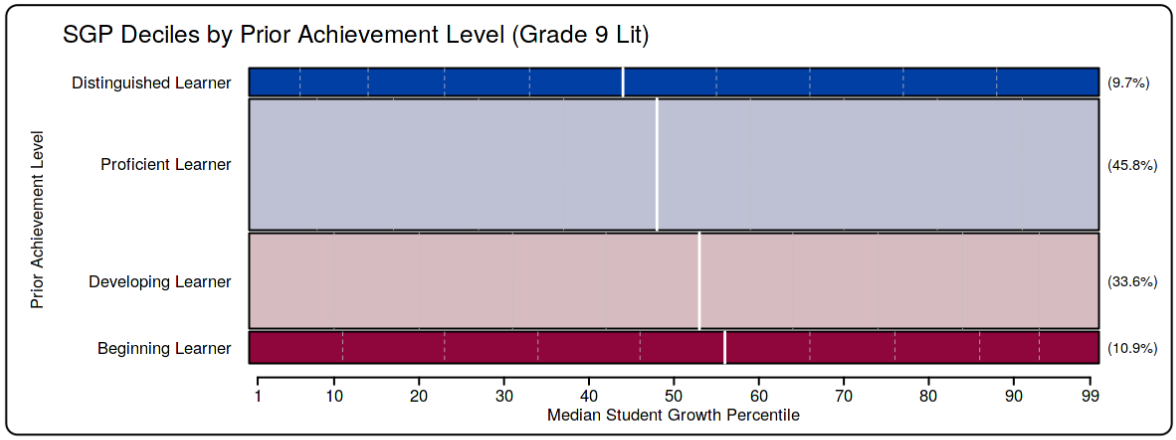


Fig. A.68: Goodness of Fit Plot for 2019 American Lit (Priors 2017 Grade 9 Lit, 2016 ELA Grade 8 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX, Grade EOCT (N = 87,035)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[190,296)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
	[296,319]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
Highest OSS:	[750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 128

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,471)	8.39	8.10	8.97	9.17	9.81	9.52	9.64	10.09	11.05	15.26	(10%)
2nd/[471,491)	9.80	8.82	9.21	9.31	8.75	9.09	10.41	10.00	11.09	13.53	(9.3%)
3rd/[491,505)	9.96	9.47	8.88	8.77	9.00	9.72	10.25	9.59	10.06	14.29	(9.5%)
4th/[505,516)	10.28	9.45	9.46	9.57	8.75	9.05	9.22	9.63	10.59	13.99	(10.9%)
5th/[516,529)	10.03	9.84	9.14	9.80	9.21	9.01	9.32	9.78	10.67	13.20	(8%)
6th/[529,539)	11.13	10.84	9.23	9.40	9.24	8.83	9.67	9.54	9.64	12.48	(10.4%)
7th/[539,552)	11.84	10.31	9.52	9.29	9.47	9.40	9.31	8.99	9.48	12.38	(11.3%)
8th/[552,566)	12.34	10.66	10.84	9.29	9.63	9.05	8.91	8.66	8.92	11.70	(9.3%)
9th/[566,586)	12.67	11.61	10.70	9.86	8.96	8.41	9.22	9.43	9.66	9.46	(10.1%)
10th/[586,735]	13.97	11.70	10.61	9.74	8.82	9.49	8.92	9.03	8.47	9.25	(11.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

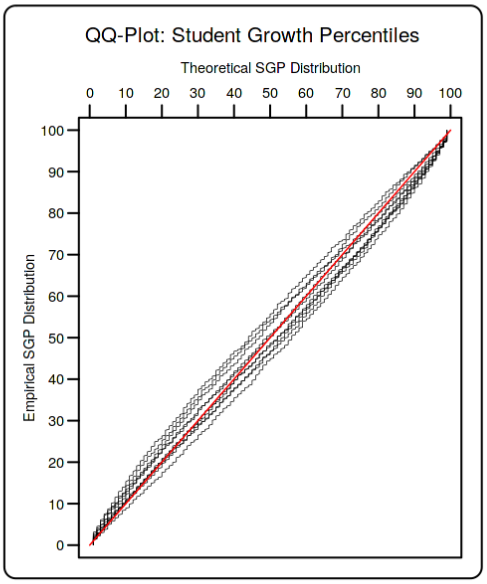
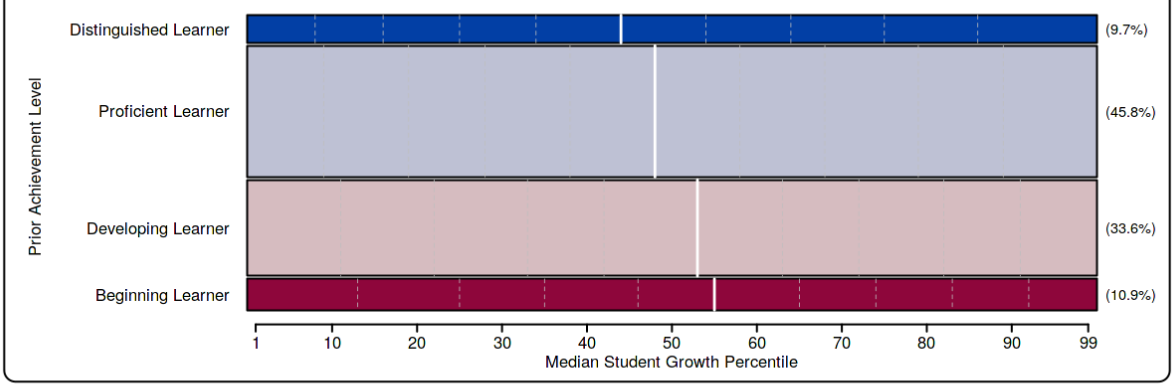


Fig. A.69: Goodness of Fit Plot for 2019 American Lit (Priors 2017 Grade 9 Lit, 2016 ELA Grade 8 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX Ranked, Grade EOCT (N = 87,035)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[190,296)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
	[296,319]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
Highest OSS:	[750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 128

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,471)	6.89	8.28	9.10	9.58	10.59	9.98	10.59	10.56	11.35	13.08	(10%)
2nd/[471,491)	8.31	8.80	9.57	9.62	9.59	9.87	10.88	10.73	11.34	11.29	(9.3%)
3rd/[491,505)	8.49	9.36	8.96	9.57	9.70	10.86	10.70	10.16	10.60	11.60	(9.5%)
4th/[505,516)	8.69	9.52	9.65	10.14	9.52	9.69	10.17	10.10	10.74	11.79	(10.9%)
5th/[516,529)	8.77	9.24	9.97	10.13	9.91	9.87	9.45	11.04	10.25	11.37	(8%)
6th/[529,539)	9.65	10.45	9.84	9.98	9.91	9.66	10.37	9.80	9.72	10.62	(10.4%)
7th/[539,552)	10.23	10.09	9.97	9.83	10.32	10.21	9.75	9.49	9.91	10.20	(11.3%)
8th/[552,566)	10.73	10.37	11.04	10.41	10.21	10.04	8.96	9.46	8.99	9.79	(9.3%)
9th/[566,586)	10.98	11.41	11.06	10.47	9.89	9.35	10.16	9.33	9.56	7.80	(10.1%)
10th/[586,735]	12.21	11.86	10.72	10.39	9.65	10.33	9.41	9.64	8.11	7.67	(11.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

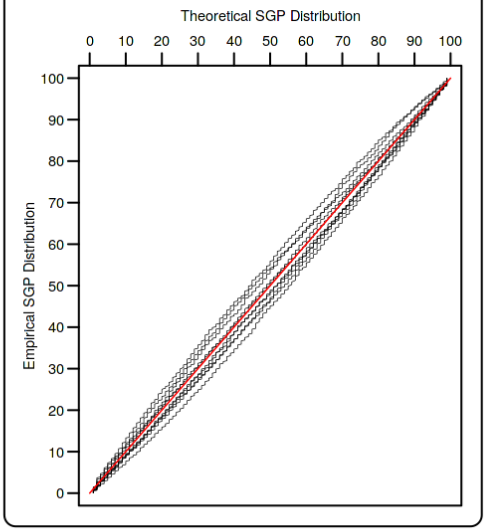
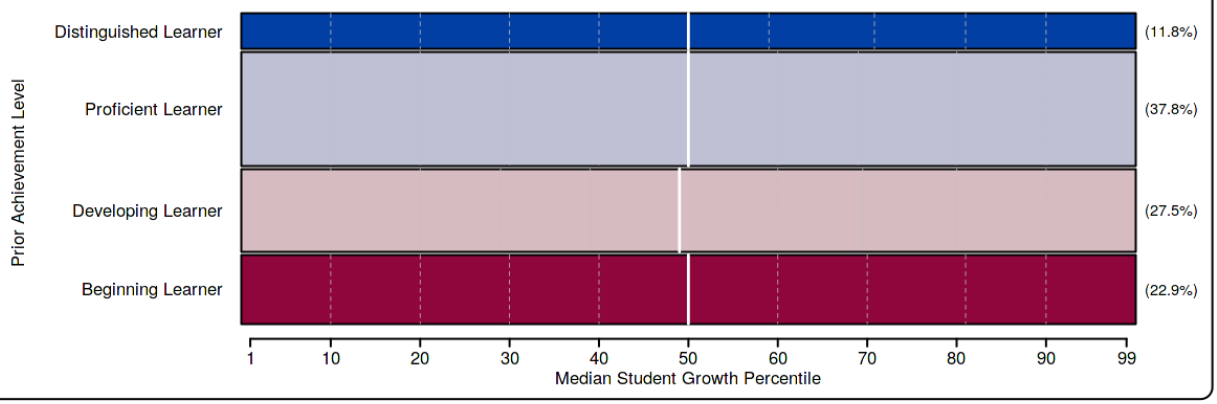


Fig. A.70: Goodness of Fit Plot for 2019 American Lit (Priors 2018 Grade 9 Lit - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP, Grade EOCT (N = 10,986)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[190,338)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[338,350]	96.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[698,698.5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.8	14.6	70.7	N = 41
	[698.5,750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	12.2	82.9	N = 41

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,441)	9.90	10.73	10.18	9.99	11.10	9.44	9.44	10.36	9.81	9.07	(9.8%)
2nd/[441,467)	9.55	8.71	9.73	9.64	9.27	11.31	10.66	9.18	9.82	12.14	(9.8%)
3rd/[467,486)	9.12	10.73	9.57	10.47	9.66	8.50	10.64	10.11	10.47	10.73	(10.2%)
4th/[486,503)	9.63	10.33	10.43	9.43	9.93	10.53	10.33	9.93	9.23	10.23	(9.1%)
5th/[503,521)	9.63	9.19	9.81	11.06	10.53	10.97	8.47	8.65	11.60	10.08	(10.2%)
6th/[521,537)	9.64	10.00	11.35	8.65	9.19	7.93	11.44	11.44	9.73	10.63	(10.1%)
7th/[537,554)	9.56	11.06	7.70	10.53	10.00	11.77	9.91	9.65	9.47	10.35	(10.3%)
8th/[554,570)	9.10	7.85	12.85	12.13	9.46	8.92	10.62	9.46	8.74	10.88	(10.2%)
9th/[570,594)	9.95	12.12	9.43	6.84	10.47	11.40	10.47	9.43	10.88	9.02	(8.8%)
10th/[594,735]	9.89	9.26	10.28	10.28	10.13	11.31	7.59	10.05	10.21	11.00	(11.5%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

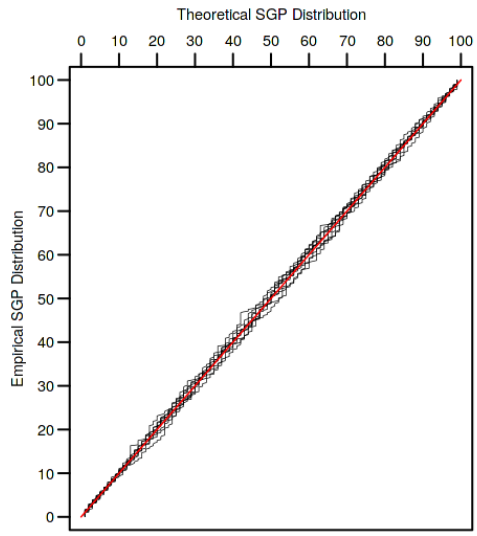
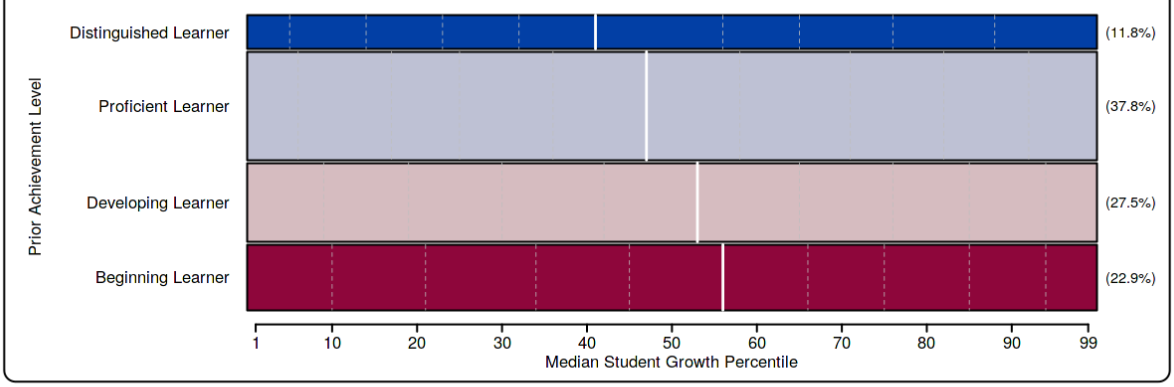


Fig. A.71: Goodness of Fit Plot for 2019 American Lit (Priors 2018 Grade 9 Lit - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX, Grade EOCT (N = 10,986)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[190,338)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[338,350]	88.9	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[698,698.5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	24.4	22.0	48.8	N = 41
	[698.5,750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	4.9	80.5	N = 41

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,441)	8.23	8.23	8.88	9.90	9.71	9.81	10.82	10.36	12.77	11.29	(9.8%)
2nd/[441,467)	8.80	8.06	9.18	7.78	8.99	8.99	10.10	10.94	11.03	16.13	(9.8%)
3rd/[467,486)	9.93	9.84	7.96	9.30	7.69	7.60	10.47	9.12	13.60	14.49	(10.2%)
4th/[486,503)	10.23	11.13	8.22	6.12	10.03	9.83	9.53	9.43	10.23	15.25	(9.1%)
5th/[503,521)	10.70	10.17	8.65	8.56	11.33	7.14	8.92	8.21	7.94	18.38	(10.2%)
6th/[521,537)	12.25	10.54	10.63	5.32	8.74	9.46	7.48	9.37	10.99	15.23	(10.1%)
7th/[537,554)	14.69	9.20	7.61	7.52	12.92	9.20	7.79	8.58	8.14	14.34	(10.3%)
8th/[554,570)	13.11	8.30	15.17	10.17	6.69	11.33	4.73	11.42	7.67	11.42	(10.2%)
9th/[570,594)	17.82	10.78	7.88	11.30	9.12	5.39	10.36	7.67	10.98	8.70	(8.8%)
10th/[594,735]	16.22	11.16	8.07	12.10	10.05	10.05	6.57	10.13	8.62	7.04	(11.5%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

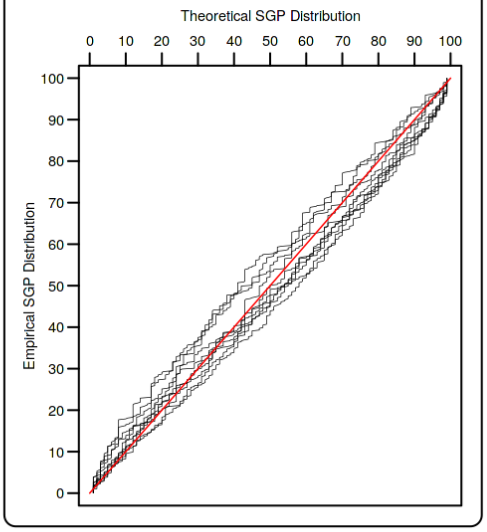
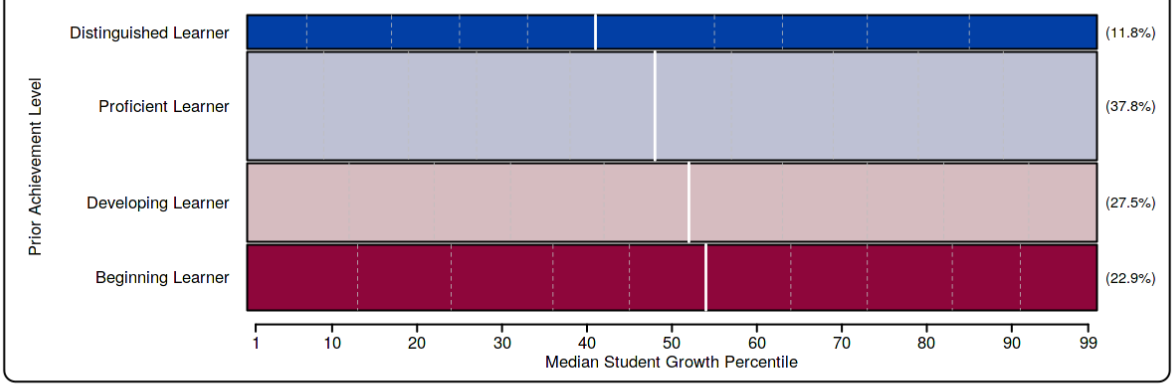


Fig. A.72: Goodness of Fit Plot for 2019 American Lit (Priors 2018 Grade 9 Lit - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX Ranked, Grade EOCT (N = 10,986)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[190,338)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[338,350]	77.8	18.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[698,698.5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	24.4	22.0	48.8	N = 41
	[698.5,750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1	14.6	68.3	N = 41

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[220,441)	6.85	8.33	8.14	11.56	9.90	11.84	11.19	10.27	13.51	8.42	(9.8%)
2nd/[441,467)	7.04	8.16	9.73	8.43	9.08	10.57	13.81	8.34	12.14	12.70	(9.8%)
3rd/[467,486)	7.33	10.55	8.86	10.02	7.96	8.59	10.20	12.52	11.00	12.97	(10.2%)
4th/[486,503)	7.72	11.43	7.92	8.22	10.43	10.93	10.43	10.73	9.33	12.84	(9.1%)
5th/[503,521)	8.30	8.92	10.17	10.35	11.51	8.30	8.47	11.24	9.46	13.29	(10.2%)
6th/[521,537)	8.47	10.27	12.88	7.03	8.47	10.00	10.09	9.46	11.08	12.25	(10.1%)
7th/[537,554)	11.68	10.71	7.61	8.85	12.92	10.09	9.73	9.65	8.32	10.44	(10.3%)
8th/[554,570)	10.88	9.10	13.56	11.15	8.74	12.49	8.21	9.28	7.58	9.01	(10.2%)
9th/[570,594)	13.37	12.12	10.26	12.02	9.12	5.70	10.26	11.19	8.70	7.25	(8.8%)
10th/[594,735]	12.58	12.50	9.26	11.55	11.71	10.76	9.26	7.12	9.02	6.25	(11.5%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

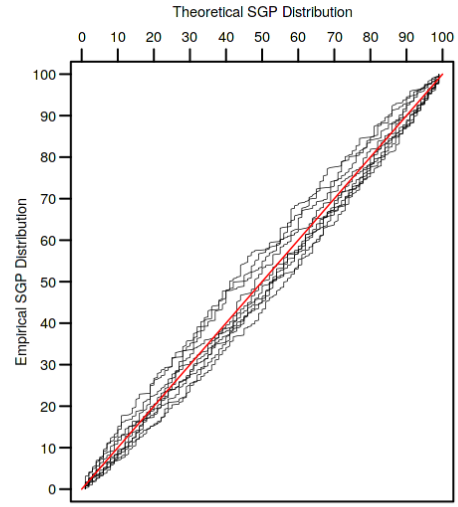
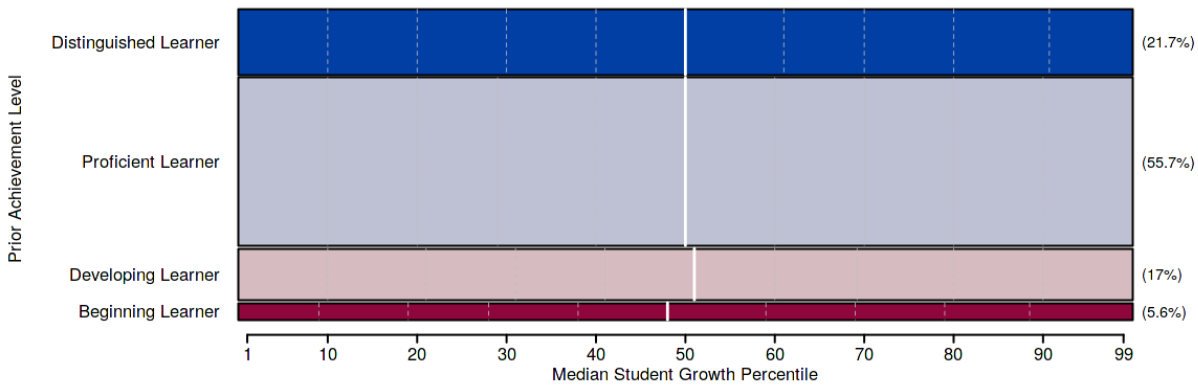


Fig. A.73: Goodness of Fit Plot for 2019 American Lit (Priors 2018 Grade 9 Lit, 2017 ELA Grade 8 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP, Grade EOCT (N = 5,091)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[319,384)	57.7	15.4	23.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[384,403]	14.8	3.7	18.5	25.9	11.1	11.1	7.4	3.7	3.7	0.0	0.0	0.0	N = 27
Highest OSS:	[698,698.5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	17.1	31.4	48.6	N = 35
	[698.5,750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	2.9	82.9	N = 35

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[337,493)	9.86	10.85	9.66	9.86	9.47	9.86	10.06	9.66	10.06	10.65	(10%)
2nd/[493,516)	10.11	9.89	10.74	9.68	10.53	10.11	9.05	10.11	10.32	9.47	(9.3%)
3rd/[516,531)	7.68	10.87	8.96	10.02	9.17	10.45	11.73	11.30	9.38	10.45	(9.2%)
4th/[531,545)	10.77	8.58	10.40	10.77	11.13	8.03	10.04	9.85	10.22	10.22	(10.8%)
5th/[545,555)	10.16	11.13	9.77	9.77	8.20	12.30	9.38	7.62	10.16	11.52	(10.1%)
6th/[555,568)	10.55	8.29	11.30	9.23	10.92	9.60	9.60	10.92	8.47	11.11	(10.4%)
7th/[568,577)	9.13	8.91	9.58	10.91	10.91	11.14	8.46	11.36	10.47	9.13	(8.8%)
8th/[577,594)	9.58	11.88	9.20	8.43	10.73	9.77	10.54	10.15	10.54	9.20	(10.3%)
9th/[594,610)	9.12	9.84	9.66	10.73	8.77	9.30	12.34	9.48	9.66	11.09	(11%)
10th/[610,735]	9.63	10.02	10.21	10.40	10.02	10.21	8.86	9.44	10.02	11.18	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

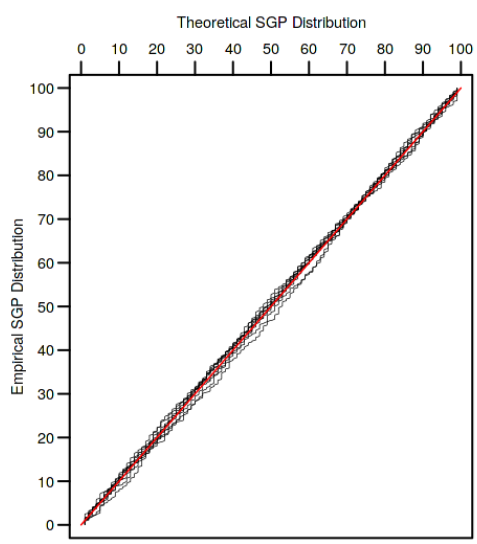
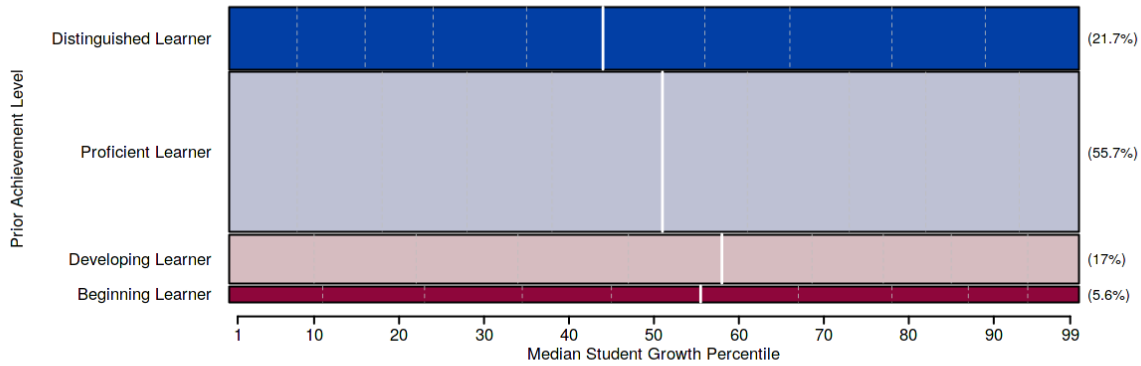


Fig. A.74: Goodness of Fit Plot for 2019 American Lit (Priors 2018 Grade 9 Lit, 2017 ELA Grade 8 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX, Grade EOCT (N = 5,091)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[319,384)	46.2	19.2	23.1	7.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[384,403]	11.1	3.7	11.1	22.2	11.1	14.8	14.8	0.0	0.0	7.4	3.7	0.0	N = 27
Highest OSS:	[698,698.5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	22.9	37.1	37.1	N = 35
	[698.5,750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	14.3	5.7	77.1	N = 35

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[337,493)	8.68	8.68	8.68	7.50	8.68	10.45	6.51	12.43	11.24	17.16	(10%)
2nd/[493,516)	9.89	10.32	8.63	7.16	8.63	8.63	9.26	11.16	11.37	14.95	(9.3%)
3rd/[516,531)	8.53	8.74	8.74	7.46	9.38	8.74	10.66	10.02	12.79	14.93	(9.2%)
4th/[531,545)	11.31	8.39	9.67	9.85	8.21	9.85	8.76	7.48	12.23	14.23	(10.8%)
5th/[545,555)	11.91	12.11	7.81	9.38	6.05	12.11	9.38	6.25	9.77	15.23	(10.1%)
6th/[555,568)	12.99	9.60	10.55	8.29	8.29	9.98	7.91	9.98	8.47	13.94	(10.4%)
7th/[568,577)	10.69	10.69	9.80	11.14	9.58	8.69	8.46	9.58	11.36	10.02	(8.8%)
8th/[577,594)	13.41	11.88	8.81	8.81	9.96	9.20	8.43	9.39	10.54	9.58	(10.3%)
9th/[594,610)	11.63	11.27	11.81	8.23	10.20	9.12	10.38	7.33	10.38	9.66	(11%)
10th/[610,735]	11.75	12.14	14.45	6.94	11.37	9.44	6.94	8.09	9.06	9.83	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

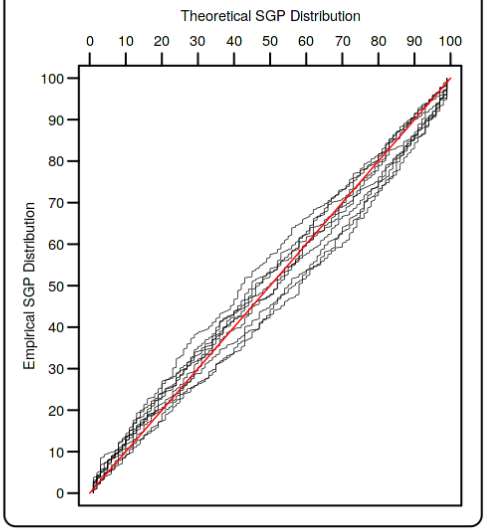
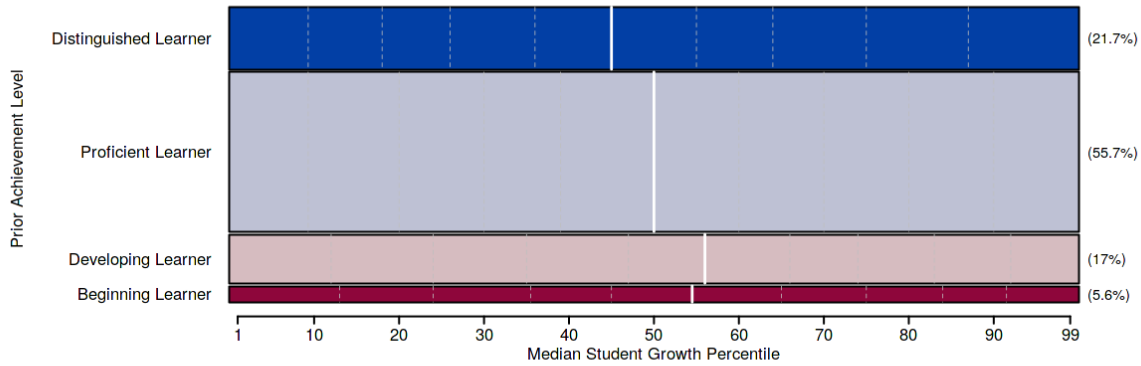


Fig. A.75: Goodness of Fit Plot for 2019 American Lit (Priors 2018 Grade 9 Lit, 2017 ELA Grade 8 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX Ranked, Grade EOCT (N = 5,091)

SGP Deciles by Prior Achievement Level (Grade 9 Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[319,384)	42.3	23.1	23.1	7.7	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[384,403]	7.4	3.7	14.8	22.2	11.1	14.8	14.8	0.0	3.7	3.7	3.7	0.0	N = 27
Highest OSS:	[698,698.5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	40.0	17.1	31.4	N = 35
	[698.5,750]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	11.4	14.3	68.6	N = 35

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[337,493)	7.50	8.48	9.27	7.69	10.45	10.45	8.09	12.43	11.83	13.81	(10%)
2nd/[493,516)	8.42	10.11	8.21	9.05	9.05	9.26	10.32	11.58	11.37	12.63	(9.3%)
3rd/[516,531)	6.82	8.32	9.59	8.53	9.59	9.59	13.22	9.17	11.09	14.07	(9.2%)
4th/[531,545)	10.22	8.58	8.21	12.04	8.76	10.22	9.49	9.85	10.77	11.86	(10.8%)
5th/[545,555)	9.96	10.94	9.96	9.77	6.84	12.89	9.38	8.20	10.16	11.91	(10.1%)
6th/[555,568)	11.49	7.72	11.68	10.17	9.42	9.98	9.04	11.68	8.29	10.55	(10.4%)
7th/[568,577)	9.13	10.24	9.80	12.47	10.91	9.35	9.58	10.02	9.35	9.13	(8.8%)
8th/[577,594)	10.15	12.84	8.81	10.92	10.34	9.77	10.34	10.73	8.43	7.66	(10.3%)
9th/[594,610)	9.84	11.81	10.02	10.91	11.27	9.66	11.81	7.69	9.84	7.16	(11%)
10th/[610,735]	10.60	11.37	14.26	8.29	13.10	9.06	8.09	9.25	8.48	7.51	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

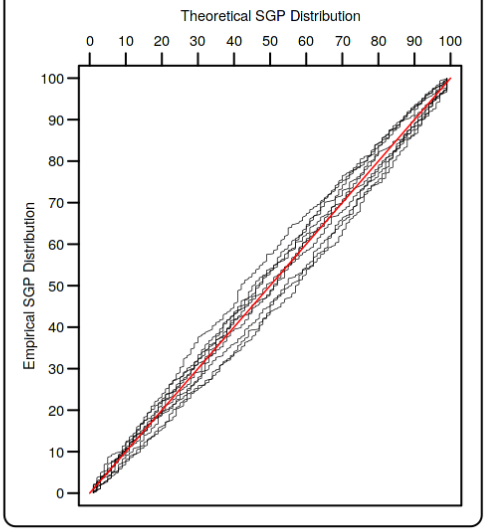
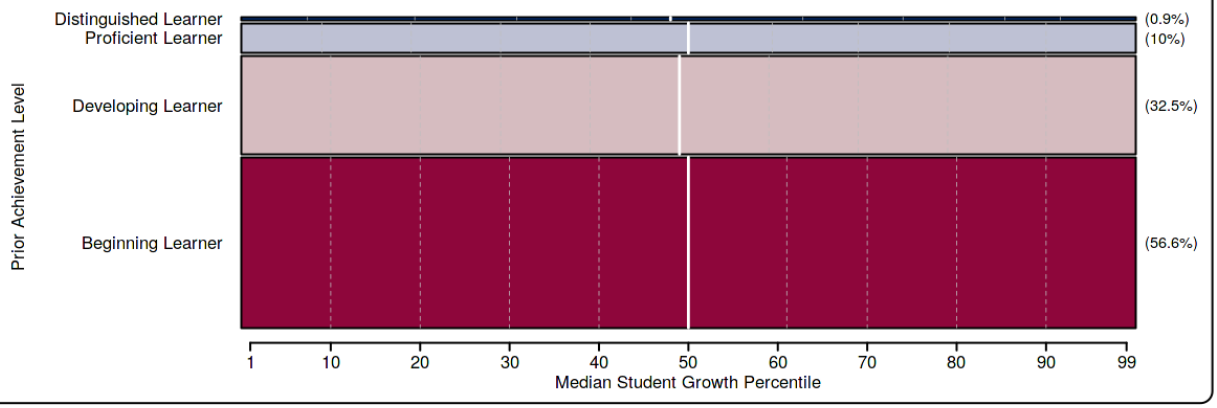


Fig. A.76: Goodness of Fit Plot for 2019 American Lit (Priors 2018 American Lit - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP, Grade EOCT (N = 4,755)

SGP Deciles by Prior Achievement Level (American Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[190,328)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[328,344]	92.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[591,612)	0.0	0.0	0.0	0.0	3.8	0.0	0.0	7.7	15.4	19.2	7.7	46.2	N = 26
	[612,750]	3.8	0.0	0.0	0.0	0.0	3.8	0.0	7.7	3.8	11.5	15.4	53.8	N = 26

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[190,405)	10.04	9.61	11.35	11.79	11.14	10.04	9.17	8.52	8.52	9.83	(9.6%)
2nd/[405,427)	9.90	11.75	6.80	9.90	10.31	10.31	11.55	11.13	9.48	8.87	(10.2%)
3rd/[427,441)	8.95	11.41	10.29	11.41	9.17	9.84	8.72	9.40	10.51	10.29	(9.4%)
4th/[441,454)	7.69	9.09	14.22	7.69	9.32	9.09	10.02	9.09	12.12	11.66	(9%)
5th/[454,466)	9.75	9.21	9.03	6.86	10.29	9.21	9.93	12.27	11.73	11.73	(11.7%)
6th/[466,477)	12.12	8.18	6.36	11.82	10.91	10.61	9.09	11.82	8.48	10.61	(6.9%)
7th/[477,491)	8.84	8.33	10.71	9.35	10.03	10.54	11.05	9.52	9.69	11.90	(12.4%)
8th/[491,505)	10.42	12.02	11.02	12.63	9.42	9.82	10.42	7.41	8.02	8.82	(10.5%)
9th/[505,526)	7.96	11.06	10.40	8.41	11.73	9.07	9.29	11.28	11.50	9.29	(9.5%)
10th/[526,712]	10.53	9.75	9.94	9.94	9.55	9.94	10.33	9.75	9.36	10.92	(10.8%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

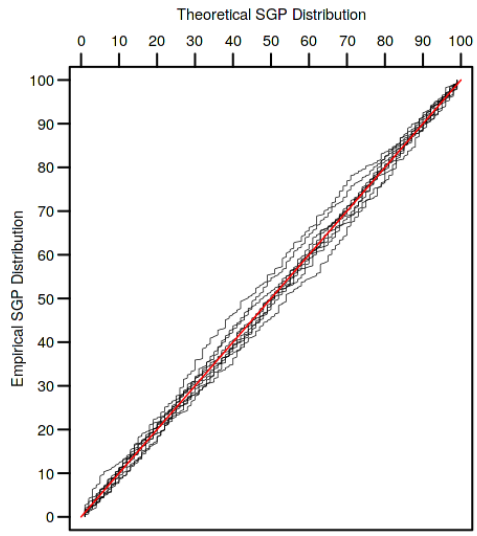
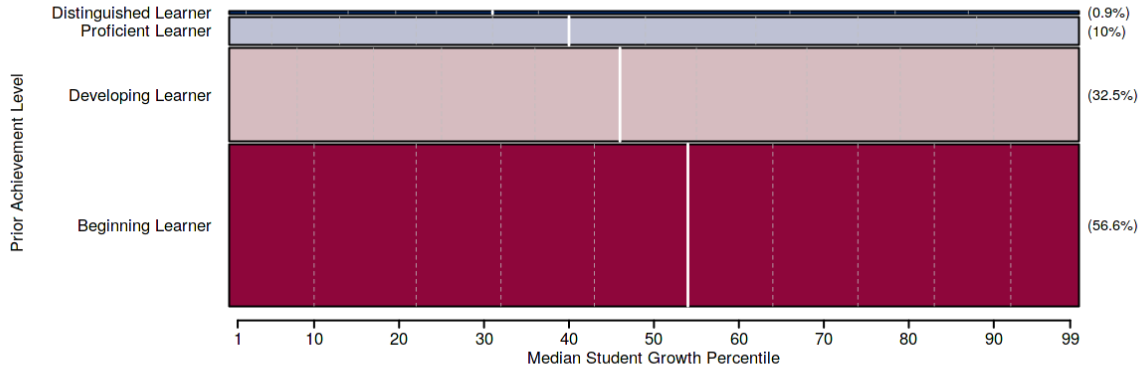


Fig. A.77: Goodness of Fit Plot for 2019 American Lit (Priors 2018 American Lit - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX, Grade EOCT (N = 4,755)

SGP Deciles by Prior Achievement Level (American Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[190,328)	96.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[328,344]	85.2	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[591,612)	0.0	0.0	0.0	3.8	3.8	0.0	3.8	11.5	23.1	3.8	3.8	46.2	N = 26
	[612,750]	3.8	0.0	0.0	7.7	0.0	3.8	0.0	3.8	3.8	19.2	7.7	50.0	N = 26

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[190,405)	8.95	8.08	9.17	12.23	10.26	11.57	10.26	10.26	8.73	10.48	(9.6%)
2nd/[405,427)	8.66	9.90	7.22	6.39	11.34	11.13	8.25	13.40	13.40	10.31	(10.2%)
3rd/[427,441)	8.95	9.40	9.62	9.62	10.74	6.26	10.74	10.51	10.96	13.20	(9.4%)
4th/[441,454)	7.69	9.09	12.82	6.76	7.93	8.62	9.56	10.02	13.99	13.52	(9%)
5th/[454,466)	10.11	9.21	9.03	5.42	10.65	9.03	6.68	14.80	9.75	15.34	(11.7%)
6th/[466,477)	13.03	8.48	8.48	10.30	7.58	11.82	8.18	9.70	9.39	13.03	(6.9%)
7th/[477,491)	10.37	10.37	9.18	8.50	12.24	7.82	9.52	10.54	8.84	12.59	(12.4%)
8th/[491,505)	14.83	10.82	14.63	8.42	9.02	8.62	11.02	6.41	7.21	9.02	(10.5%)
9th/[505,526)	12.17	11.50	11.73	7.52	13.50	3.98	10.62	9.73	10.40	8.85	(9.5%)
10th/[526,712]	16.57	11.70	8.77	13.45	9.94	5.26	9.36	8.97	7.21	8.77	(10.8%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

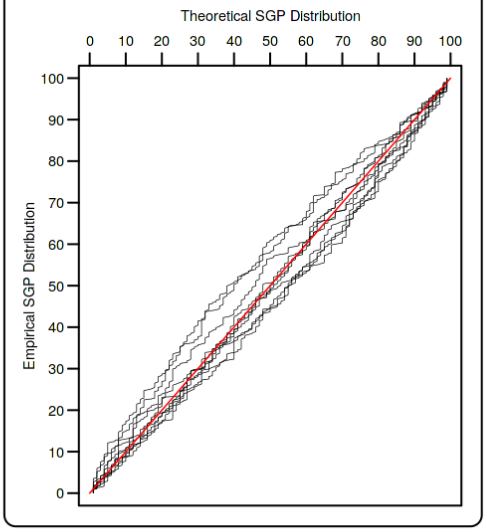
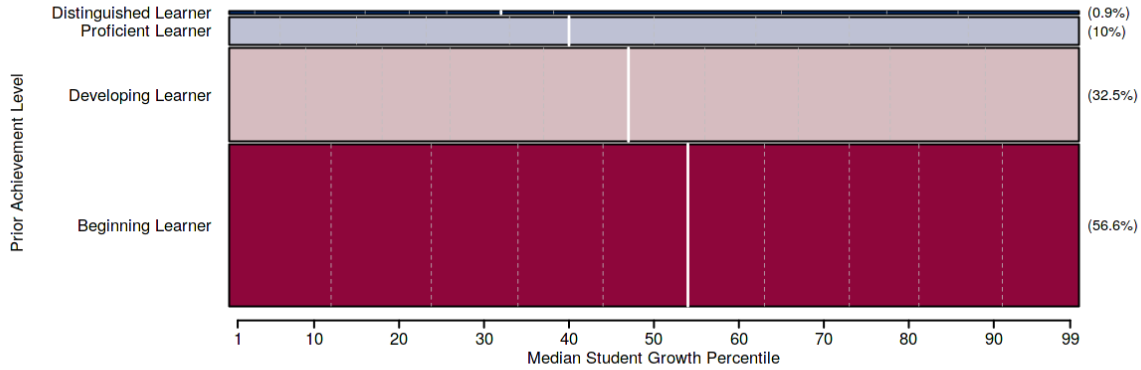


Fig. A.78: Goodness of Fit Plot for 2019 American Lit (Priors 2018 American Lit - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX Ranked, Grade EOCT (N = 4,755)

SGP Deciles by Prior Achievement Level (American Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[190,328)	96.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[328,344]	85.2	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[591,612)	0.0	0.0	0.0	3.8	3.8	0.0	3.8	15.4	19.2	3.8	11.5	38.5	N = 26
	[612,750]	3.8	0.0	0.0	3.8	3.8	3.8	0.0	3.8	3.8	19.2	11.5	46.2	N = 26

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[190,405)	6.77	9.39	8.95	11.57	10.48	13.54	12.01	8.52	9.17	9.61	(9.6%)
2nd/[405,427)	8.04	8.66	7.84	7.63	11.13	11.55	10.52	12.58	12.16	9.90	(10.2%)
3rd/[427,441)	6.26	10.29	10.74	10.29	9.40	8.28	10.96	11.19	11.63	10.96	(9.4%)
4th/[441,454)	6.76	8.62	12.35	8.16	7.93	10.02	10.02	10.96	13.29	11.89	(9%)
5th/[454,466)	9.39	9.21	7.40	7.76	10.29	10.29	7.40	13.90	12.09	12.27	(11.7%)
6th/[466,477)	12.12	8.18	7.58	11.82	8.18	12.42	9.70	9.39	7.58	13.03	(6.9%)
7th/[477,491)	9.69	9.18	9.86	9.69	12.07	9.18	8.50	11.22	8.50	12.07	(12.4%)
8th/[491,505)	12.02	12.22	13.83	10.02	9.62	10.22	10.22	5.61	7.82	8.42	(10.5%)
9th/[505,526)	9.73	11.73	10.62	10.40	11.95	7.08	11.28	7.96	10.62	8.63	(9.5%)
10th/[526,712]	13.65	12.67	9.75	14.04	7.80	8.58	9.75	8.38	6.82	8.58	(10.8%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

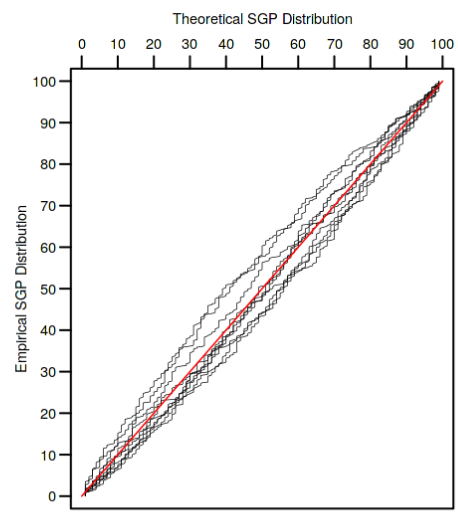
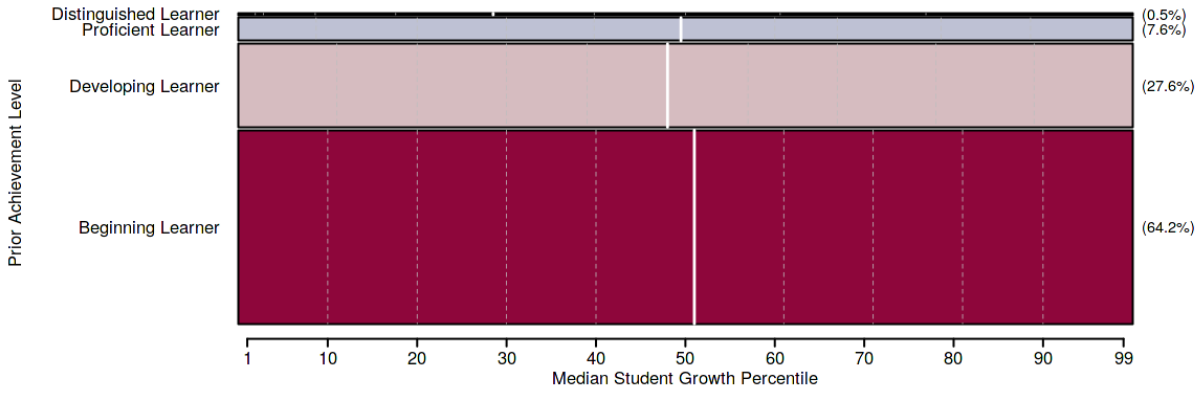


Fig. A.79: Goodness of Fit Plot for 2019 American Lit (Priors 2019 American Lit - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP, Grade EOCT (N = 1,937)

SGP Deciles by Prior Achievement Level (American Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[239,345)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[345,368]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[562,583)	4.2	0.0	0.0	4.2	8.3	8.3	8.3	12.5	16.7	8.3	8.3	20.8	N = 24
	[583,705]	0.0	0.0	0.0	0.0	0.0	3.8	3.8	7.7	11.5	19.2	15.4	38.5	N = 26

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[190,408)	10.36	10.88	10.36	10.36	10.36	9.84	11.92	9.84	6.22	9.84	(10%)
2nd/[408,429)	10.00	11.05	8.95	12.63	12.63	9.47	7.89	8.42	12.63	6.32	(9.8%)
3rd/[429,440)	6.56	10.38	10.93	9.29	10.38	12.02	9.84	10.38	9.29	10.93	(9.4%)
4th/[440,452)	7.07	7.61	8.70	10.33	10.33	11.41	7.07	10.33	10.33	16.85	(9.5%)
5th/[452,461)	13.79	8.37	11.33	9.36	2.96	7.88	12.81	11.82	12.32	9.36	(10.5%)
6th/[461,470)	11.48	10.53	6.70	7.18	10.53	9.57	9.09	11.48	11.00	12.44	(10.8%)
7th/[470,480)	7.18	12.71	14.92	7.73	9.39	9.39	12.71	9.94	8.29	7.73	(9.3%)
8th/[480,495)	10.16	10.70	8.56	13.37	12.83	11.23	9.09	5.35	8.56	10.16	(9.7%)
9th/[495,516)	9.09	7.18	9.09	11.96	11.96	9.57	8.61	11.96	9.57	11.00	(10.8%)
10th/[516,636]	10.61	10.61	11.11	9.09	9.60	9.09	10.61	9.60	10.61	9.09	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

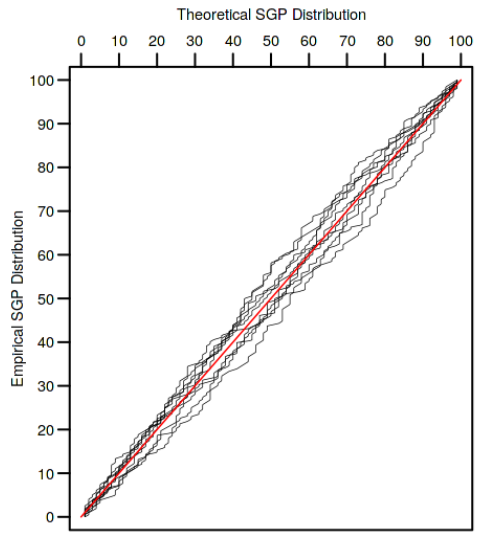
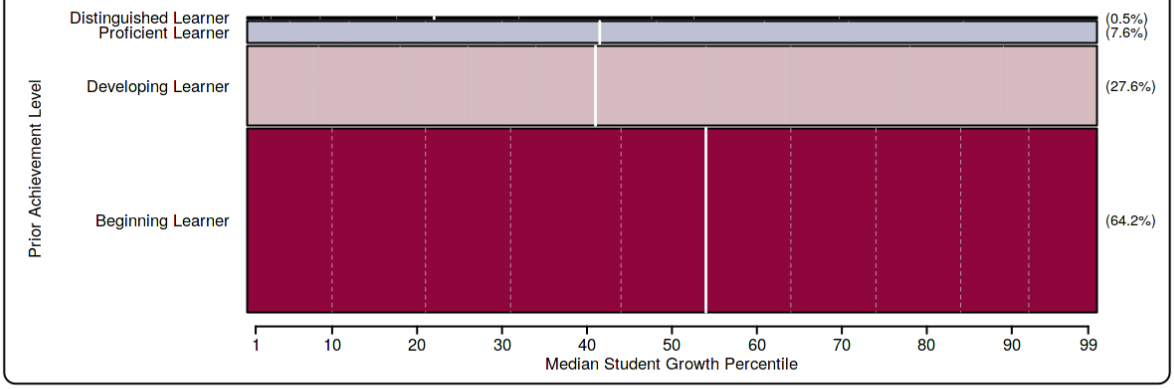


Fig. A.80: Goodness of Fit Plot for 2019 American Lit (Priors 2019 American Lit - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX, Grade EOCT (N = 1,937)

SGP Deciles by Prior Achievement Level (American Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[239,345)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[345,368]	96.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[562,583)	4.2	0.0	0.0	16.7	4.2	12.5	4.2	16.7	8.3	4.2	8.3	20.8	N = 24
	[583,705]	0.0	0.0	0.0	0.0	0.0	7.7	3.8	15.4	7.7	15.4	11.5	38.5	N = 26

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[190,408)	9.33	8.81	8.81	10.36	9.84	11.40	9.33	15.54	6.74	9.84	(10%)
2nd/[408,429)	8.42	8.95	9.47	10.53	10.53	12.63	5.26	12.11	13.16	8.95	(9.8%)
3rd/[429,440)	6.56	8.20	10.93	9.84	8.20	10.93	7.65	10.93	12.02	14.75	(9.4%)
4th/[440,452)	7.61	7.61	6.52	10.87	9.24	13.04	4.35	6.52	14.67	19.57	(9.5%)
5th/[452,461)	13.79	8.37	11.33	8.37	4.93	4.43	12.81	11.82	9.36	14.78	(10.5%)
6th/[461,470)	11.96	10.05	7.66	6.22	9.57	11.48	5.26	11.48	11.96	14.35	(10.8%)
7th/[470,480)	8.29	13.81	13.26	12.15	4.42	6.63	13.81	11.05	8.29	8.29	(9.3%)
8th/[480,495)	15.51	9.09	10.16	12.30	11.23	4.81	11.23	7.49	6.95	11.23	(9.7%)
9th/[495,516)	11.96	11.00	9.57	10.53	12.44	7.18	7.66	9.09	11.00	9.57	(10.8%)
10th/[516,636]	17.17	13.64	9.60	8.08	13.13	6.06	10.10	7.07	7.07	8.08	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

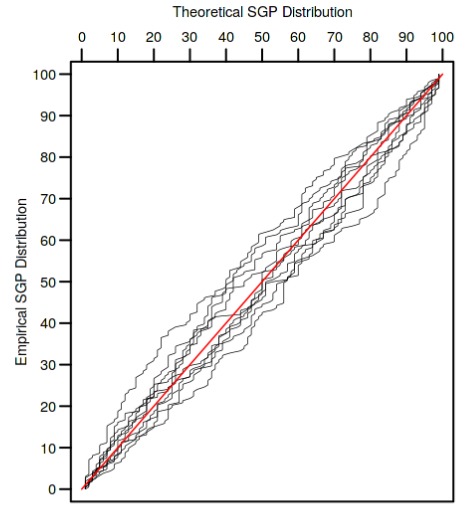
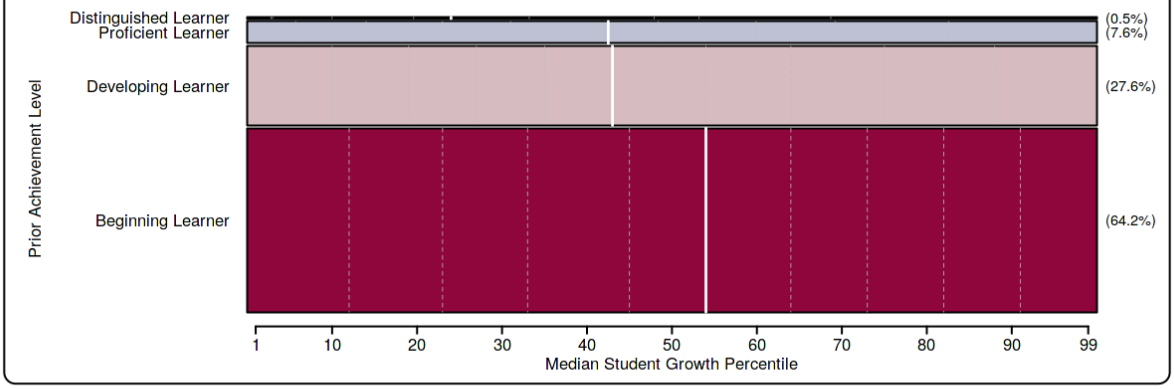


Fig. A.81: Goodness of Fit Plot for 2019 American Lit (Priors 2019 American Lit - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 American Lit SGP SIMEX Ranked, Grade EOCT (N = 1,937)

SGP Deciles by Prior Achievement Level (American Lit)



Ceiling / Floor Effects Test

Student Growth Percentile Range

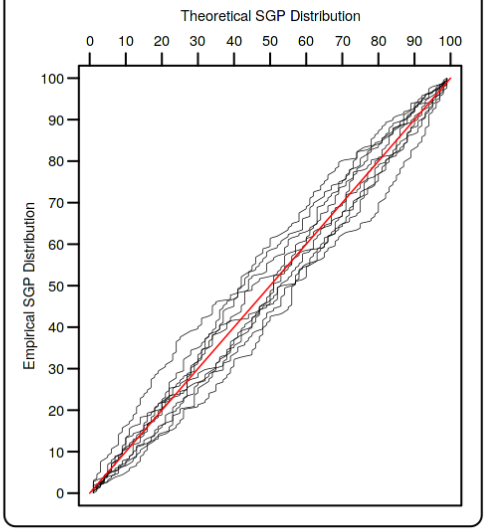
Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[239,345)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[345,368]	88.9	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[562,583)	4.2	0.0	0.0	16.7	4.2	12.5	4.2	16.7	8.3	12.5	4.2	16.7	N = 24
	[583,705]	0.0	0.0	0.0	0.0	0.0	3.8	7.7	15.4	11.5	19.2	11.5	30.8	N = 26

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[190,408)	8.29	8.29	9.33	10.88	9.33	12.44	10.36	15.54	7.25	8.29	(10%)
2nd/[408,429)	6.84	8.95	11.05	8.95	11.58	13.16	5.79	13.68	11.58	8.42	(9.8%)
3rd/[429,440)	4.92	9.29	9.84	9.29	10.38	10.93	9.29	10.93	13.11	12.02	(9.4%)
4th/[440,452)	6.52	8.15	5.98	9.78	10.87	13.59	7.07	5.43	15.22	17.39	(9.5%)
5th/[452,461)	11.82	8.37	10.84	10.84	3.45	6.40	14.78	11.82	9.85	11.82	(10.5%)
6th/[461,470)	11.00	11.00	5.74	7.18	10.53	12.44	6.70	11.96	9.57	13.88	(10.8%)
7th/[470,480)	7.18	11.60	16.02	9.94	7.18	7.73	15.47	8.84	8.29	7.73	(9.3%)
8th/[480,495)	10.70	11.23	9.63	14.97	11.76	8.02	8.02	8.56	6.95	10.16	(9.7%)
9th/[495,516)	10.53	9.57	11.48	11.00	12.92	7.18	11.00	6.70	11.00	8.61	(10.8%)
10th/[516,636]	16.16	13.64	9.60	8.59	11.11	9.09	11.62	6.57	7.58	6.06	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles



3.3 Algebra I

Fig. A.82: Goodness of Fit Plot for 2019 Algebra I (Priors 2017 Math Grade 8 - Uncorrected).

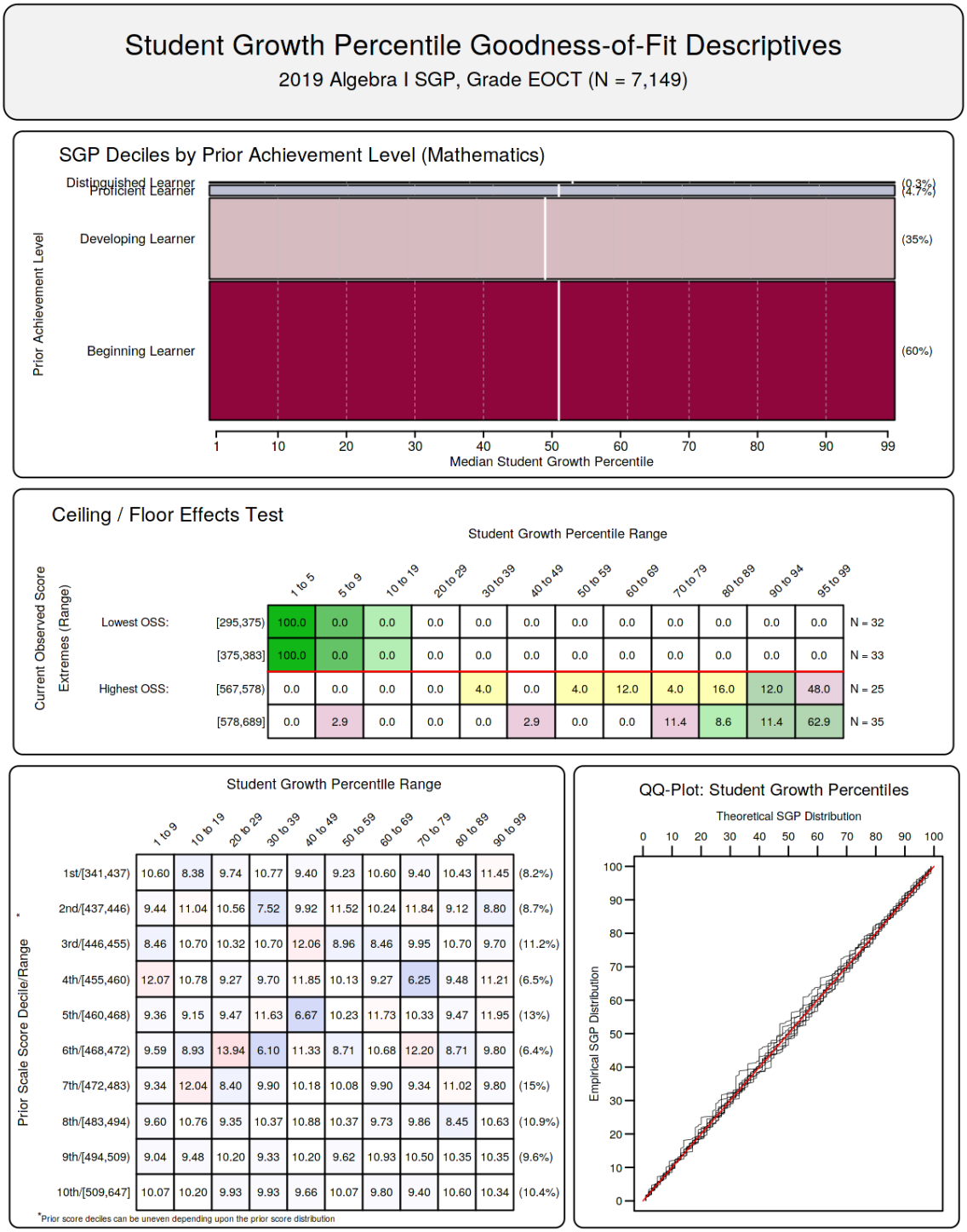
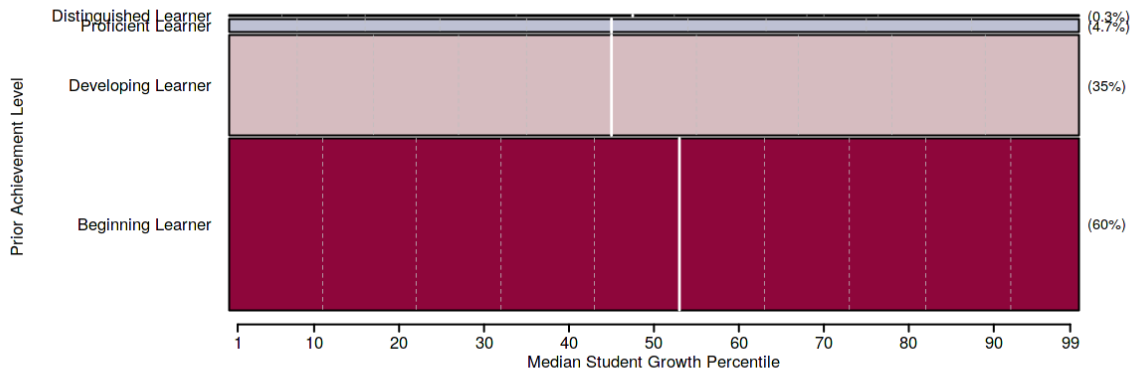


Fig. A.83: Goodness of Fit Plot for 2019 Algebra I (Priors 2017 Math Grade 8 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX, Grade EOCT (N = 7,149)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[295,375)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
	[375,383]	97.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 33
Highest OSS:	[567,578)	0.0	0.0	4.0	0.0	0.0	8.0	4.0	4.0	16.0	12.0	12.0	40.0	N = 25
	[578,689]	0.0	2.9	0.0	0.0	2.9	0.0	0.0	2.9	14.3	8.6	8.6	60.0	N = 35

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[341,437)	6.67	10.43	6.84	6.84	10.60	9.57	9.57	11.28	12.99	15.21	(8.2%)
2nd/[437,446)	7.68	9.28	11.36	6.56	9.12	8.32	12.64	11.84	11.20	12.00	(8.7%)
3rd/[446,455)	8.46	10.20	10.07	6.34	12.94	10.32	9.58	10.45	9.83	11.82	(11.2%)
4th/[455,460)	12.07	10.13	9.70	9.27	8.62	11.21	9.05	7.54	10.13	12.28	(6.5%)
5th/[460,468)	9.36	9.15	9.47	11.63	6.67	11.09	8.93	10.44	10.12	13.13	(13%)
6th/[468,472)	9.59	8.93	11.98	8.06	11.33	9.80	9.59	12.20	8.71	9.80	(6.4%)
7th/[472,483)	9.90	12.32	9.43	10.83	8.50	9.15	10.08	9.43	10.46	9.90	(15%)
8th/[483,494)	11.01	10.37	10.88	11.01	11.65	8.58	8.96	8.83	7.81	10.88	(10.9%)
9th/[494,509)	11.95	10.06	11.08	8.31	10.64	9.18	9.77	9.77	9.48	9.77	(9.6%)
10th/[509,647]	13.29	12.08	8.99	11.41	9.40	7.52	10.47	10.74	6.98	9.13	(10.4%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

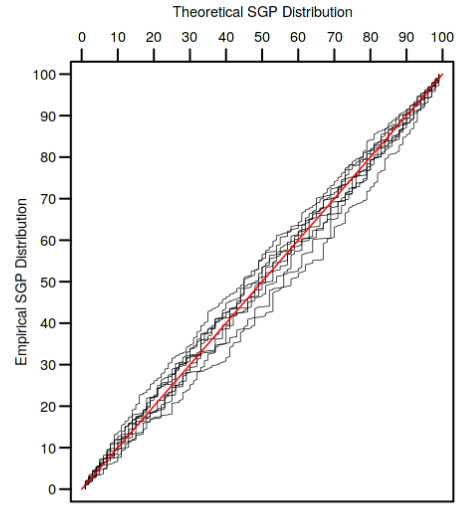
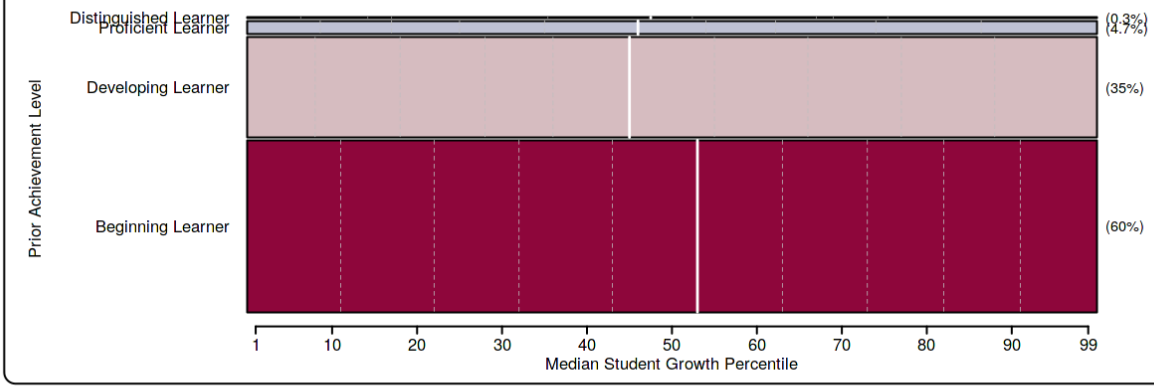


Fig. A.84: Goodness of Fit Plot for 2019 Algebra I (Priors 2017 Math Grade 8 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX Ranked, Grade EOCT (N = 7,149)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[295,375)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
	[375,383]	97.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 33
Highest OSS:	[567,578)	0.0	0.0	4.0	0.0	0.0	8.0	4.0	4.0	16.0	12.0	16.0	36.0	N = 25
	[578,689]	0.0	2.9	0.0	0.0	2.9	0.0	0.0	8.6	8.6	8.6	11.4	57.1	N = 35

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[341,437)	6.15	10.26	7.01	7.35	10.60	10.09	11.79	9.06	13.16	14.53	(8.2%)
2nd/[437,446)	7.68	8.48	12.16	6.56	9.12	9.28	12.80	10.72	12.48	10.72	(8.7%)
3rd/[446,455)	8.08	10.20	9.70	7.09	12.94	10.70	9.20	10.45	11.07	10.57	(11.2%)
4th/[455,460)	10.34	11.85	7.97	10.99	8.62	12.50	7.76	7.54	10.56	11.85	(6.5%)
5th/[460,468)	9.36	7.75	8.83	13.13	7.21	11.09	8.93	11.84	10.01	11.84	(13%)
6th/[468,472)	9.59	7.84	13.07	8.06	11.33	9.80	9.59	12.20	8.71	9.80	(6.4%)
7th/[472,483)	9.24	11.95	8.68	12.61	8.50	10.18	10.08	8.68	10.92	9.15	(15%)
8th/[483,494)	10.76	9.86	11.40	11.27	11.65	8.58	8.96	9.09	8.19	10.24	(10.9%)
9th/[494,509)	11.52	8.45	12.24	9.18	10.64	9.62	10.06	10.20	9.48	8.60	(9.6%)
10th/[509,647]	11.95	12.21	9.13	12.48	9.40	8.99	10.34	9.53	7.52	8.46	(10.4%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

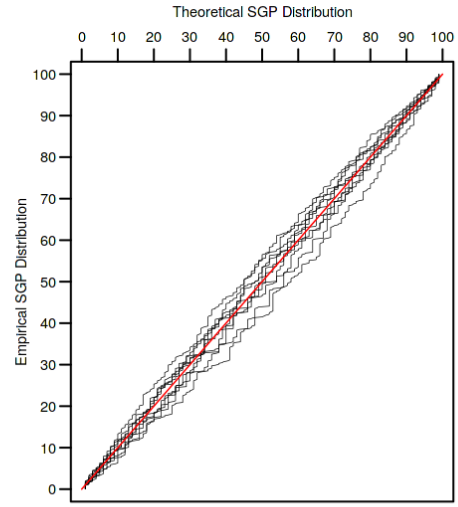
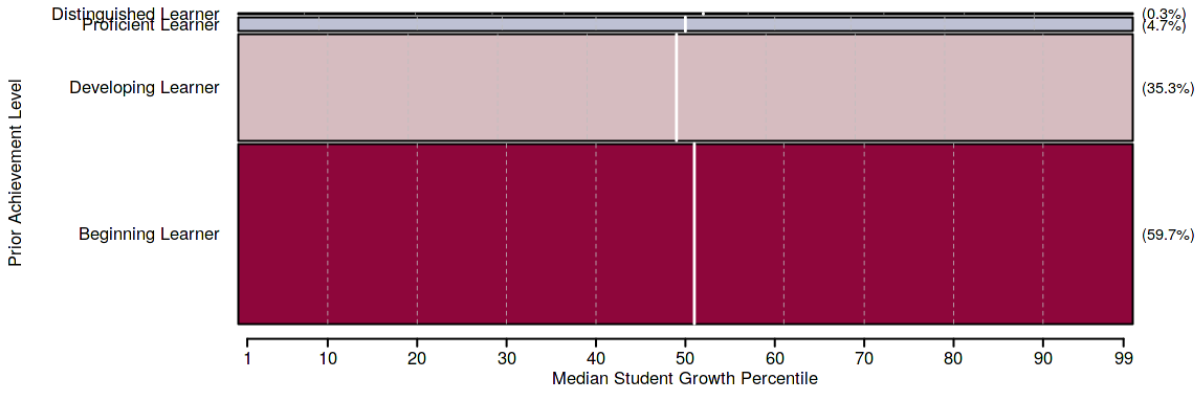


Fig. A.85: Goodness of Fit Plot for 2019 Algebra I (Priors 2017 Math Grade 8, 2016 Math Grade 7 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP, Grade EOCT (N = 6,730)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[295,374)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
	[374,383]	94.9	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 39
Highest OSS:	[567,578)	4.2	0.0	0.0	0.0	0.0	0.0	8.3	12.5	0.0	16.7	8.3	50.0	N = 24
	[578,689]	3.1	0.0	3.1	0.0	3.1	0.0	0.0	0.0	6.2	12.5	12.5	59.4	N = 32

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[341,437)	10.13	9.94	9.76	9.19	10.69	8.82	10.51	10.51	9.76	10.69	(7.9%)
2nd/[437,446)	8.95	9.12	9.82	11.75	8.95	9.82	11.05	10.88	10.00	9.65	(8.5%)
3rd/[446,455)	9.67	9.54	10.33	10.20	12.03	10.07	7.45	10.46	9.67	10.59	(11.4%)
4th/[455,460)	10.76	11.67	8.92	11.67	9.38	10.30	9.38	7.78	9.38	10.76	(6.5%)
5th/[460,468)	8.66	10.51	9.93	10.16	8.20	9.47	11.43	9.58	11.20	10.85	(12.9%)
6th/[468,475)	9.18	8.94	10.12	7.76	10.82	10.24	10.47	10.71	10.59	11.18	(12.6%)
7th/[475,483)	11.00	10.52	11.65	9.39	10.03	10.36	10.52	9.87	7.93	8.74	(9.2%)
8th/[483,494)	9.25	10.88	8.98	11.16	11.84	10.07	9.12	8.57	9.66	10.48	(10.9%)
9th/[494,509)	8.98	9.74	9.59	10.35	8.68	10.20	10.05	11.57	10.81	10.05	(9.8%)
10th/[509,632]	10.59	9.59	10.59	9.59	9.73	9.73	10.16	9.30	10.01	10.73	(10.4%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

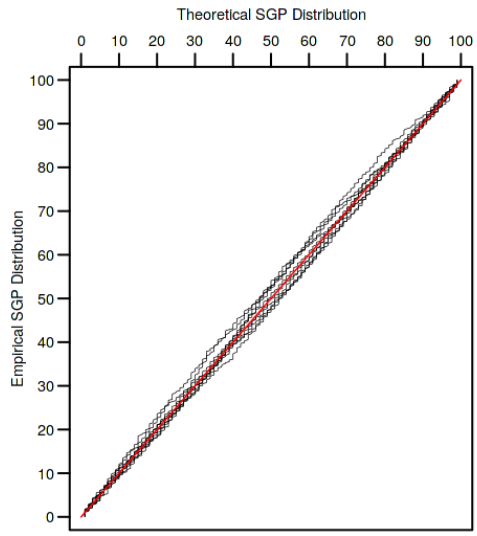
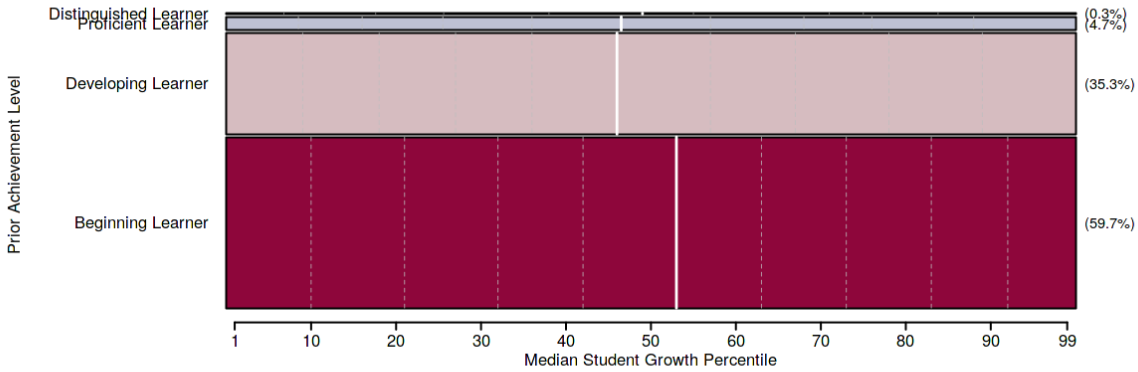


Fig. A.86: Goodness of Fit Plot for 2019 Algebra I (Priors 2017 Math Grade 8, 2016 Math Grade 7 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX, Grade EOCT (N = 6,730)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[295,374)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
	[374,383]	94.9	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 39
Highest OSS:	[567,578)	4.2	0.0	0.0	0.0	0.0	4.2	8.3	8.3	0.0	16.7	16.7	41.7	N = 24
	[578,689]	3.1	0.0	3.1	0.0	3.1	0.0	0.0	0.0	12.5	6.2	9.4	62.5	N = 32

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[341,437)	8.26	9.76	8.07	7.32	8.26	10.51	9.19	11.63	12.76	14.26	(7.9%)
2nd/[437,446)	8.42	7.54	9.65	10.18	8.42	9.47	10.35	13.33	10.35	12.28	(8.5%)
3rd/[446,455)	9.28	8.89	10.07	8.10	11.24	10.72	8.76	9.67	10.72	12.55	(11.4%)
4th/[455,460)	10.76	10.76	8.92	11.21	9.38	9.84	10.07	8.01	9.15	11.90	(6.5%)
5th/[460,468)	9.01	10.05	9.58	9.70	8.31	9.24	11.09	10.39	10.74	11.89	(12.9%)
6th/[468,475)	9.76	9.06	9.18	8.82	10.35	10.00	9.76	11.06	9.18	12.82	(12.6%)
7th/[475,483)	11.65	11.49	11.65	10.03	8.58	10.52	9.87	9.22	8.09	8.90	(9.2%)
8th/[483,494)	10.61	11.16	10.61	11.43	10.07	9.66	8.98	8.03	8.98	10.48	(10.9%)
9th/[494,509)	10.96	10.35	12.33	7.91	8.98	9.74	9.13	10.65	10.65	9.28	(9.8%)
10th/[509,632]	12.02	11.30	12.45	6.72	12.59	6.87	10.73	9.59	8.87	8.87	(10.4%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

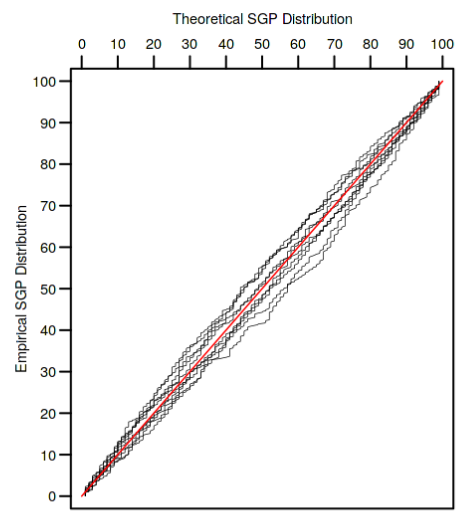
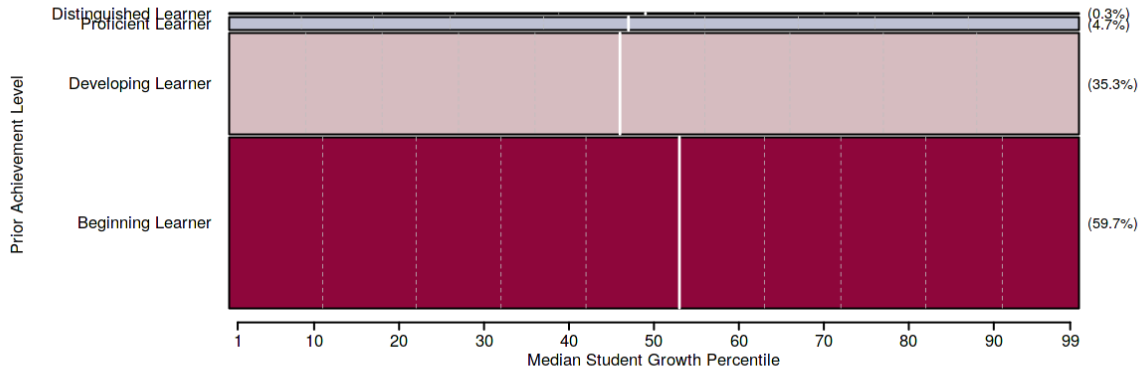


Fig. A.87: Goodness of Fit Plot for 2019 Algebra I (Priors 2017 Math Grade 8, 2016 Math Grade 7 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX Ranked, Grade EOCT (N = 6,730)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[295,374)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
	[374,383]	94.9	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 39
Highest OSS:	[567,578)	0.0	4.2	0.0	0.0	0.0	4.2	8.3	8.3	0.0	20.8	16.7	37.5	N = 24
	[578,689]	3.1	0.0	3.1	0.0	3.1	0.0	0.0	0.0	12.5	9.4	9.4	59.4	N = 32

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[341,437)	7.50	9.38	8.63	7.88	8.26	10.88	10.32	11.63	12.38	13.13	(7.9%)
2nd/[437,446)	8.25	7.02	9.82	10.70	8.42	10.18	10.18	13.16	10.88	11.40	(8.5%)
3rd/[446,455)	8.89	9.02	9.28	9.15	11.37	10.98	9.41	9.41	10.59	11.90	(11.4%)
4th/[455,460)	9.84	11.44	8.01	12.36	9.84	9.38	10.30	8.24	9.61	10.98	(6.5%)
5th/[460,468)	8.55	9.93	9.01	10.85	8.55	9.93	11.32	9.58	11.32	10.97	(12.9%)
6th/[468,475)	9.18	9.29	8.94	9.41	11.29	9.88	10.00	10.35	10.00	11.65	(12.6%)
7th/[475,483)	11.00	10.68	12.30	10.84	9.22	10.36	10.68	9.06	6.96	8.90	(9.2%)
8th/[483,494)	9.80	11.29	10.48	12.24	10.48	9.66	9.25	8.44	8.44	9.93	(10.9%)
9th/[494,509)	9.89	10.96	11.87	8.83	9.28	10.50	8.52	11.26	10.35	8.52	(9.8%)
10th/[509,632]	11.30	11.59	11.87	7.73	12.59	8.30	9.87	9.16	9.16	8.44	(10.4%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

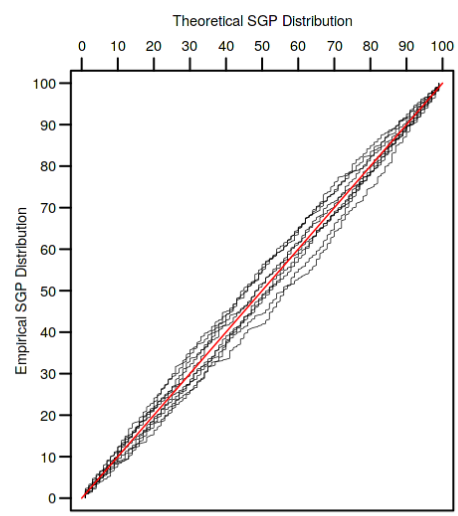
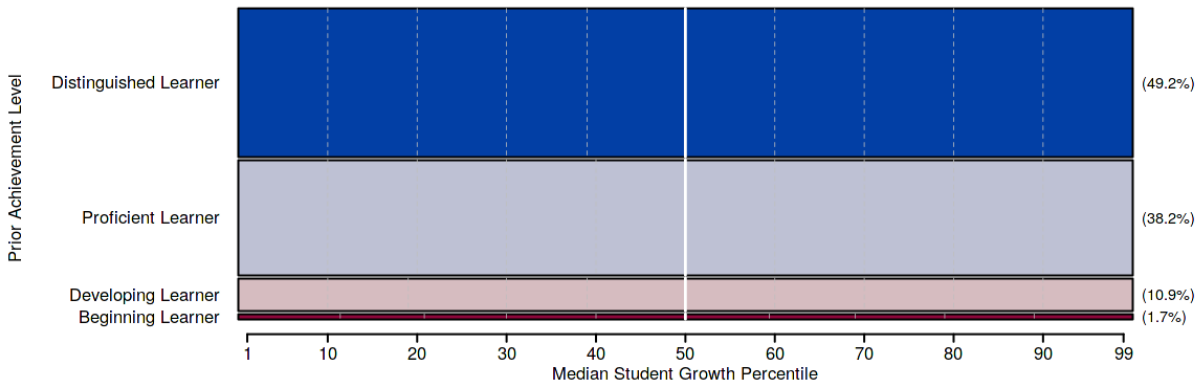


Fig. A.88: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Math Grade 7 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP, Grade EOCT (N = 23,623)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[319,407)	95.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 20
	[407,415]	71.0	9.7	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 31
Highest OSS:	[785]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 206

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[386,518)	9.12	10.02	10.14	10.02	9.72	10.19	10.14	9.80	10.14	10.70	(9.9%)
2nd/[518,536)	10.85	10.42	9.89	10.05	9.84	9.94	9.89	10.42	9.30	9.41	(8%)
3rd/[536,554)	9.43	9.29	10.42	9.65	10.25	9.01	9.61	10.74	10.25	11.34	(12%)
4th/[554,566)	8.98	10.14	8.93	10.59	11.62	10.59	10.05	8.30	10.37	10.41	(9.4%)
5th/[566,578)	8.69	10.98	9.66	9.08	10.39	10.78	9.81	9.47	10.93	10.20	(8.7%)
6th/[578,592)	10.90	10.60	9.40	12.13	6.83	11.04	11.16	9.18	9.37	9.40	(11.3%)
7th/[592,605)	8.87	8.96	12.57	11.04	9.00	9.78	10.35	9.39	10.35	9.70	(9.7%)
8th/[605,623)	9.26	10.71	10.20	9.13	10.46	8.66	8.71	11.61	10.37	10.88	(9.9%)
9th/[623,650)	9.51	9.14	8.78	9.10	11.24	10.97	9.05	10.88	9.92	11.43	(9.3%)
10th/[650,740]	10.15	10.08	10.04	10.98	8.96	10.26	11.02	9.97	8.49	10.04	(11.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

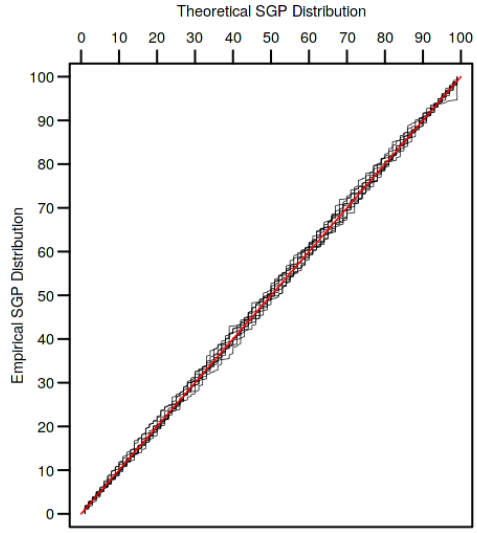
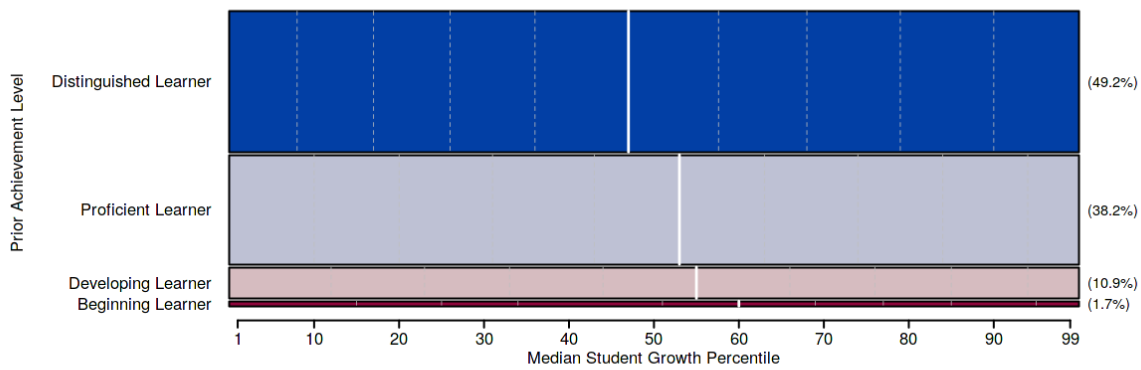


Fig. A.89: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Math Grade 7 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX, Grade EOCT (N = 23,623)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[319,407)	80.0	10.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 20
	[407,415]	67.7	3.2	12.9	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 31
Highest OSS:	[785]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 206

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[386,518)	7.25	7.76	9.04	9.68	8.82	8.95	10.91	10.53	12.70	14.36	(9.9%)
2nd/[518,536)	9.99	9.84	8.83	9.20	9.68	8.08	11.59	8.83	10.74	13.24	(8%)
3rd/[536,554)	8.90	9.19	9.05	8.90	8.73	10.39	7.88	10.78	9.75	16.43	(12%)
4th/[554,566)	10.01	9.78	8.12	9.02	10.82	11.71	8.17	7.50	10.28	14.59	(9.4%)
5th/[566,578)	9.76	11.02	8.84	8.35	10.44	6.27	10.88	9.08	12.34	13.02	(8.7%)
6th/[578,592)	12.39	10.52	9.44	10.71	6.79	11.04	10.15	8.17	10.04	10.75	(11.3%)
7th/[592,605)	10.48	12.35	9.48	10.26	10.26	8.04	10.17	8.83	7.26	12.87	(9.7%)
8th/[605,623)	11.69	11.57	10.33	8.66	9.90	8.07	10.84	7.68	10.37	10.88	(9.9%)
9th/[623,650)	11.43	11.38	8.00	11.29	9.64	9.78	10.79	10.47	7.95	9.28	(9.3%)
10th/[650,740]	14.31	10.26	12.72	8.09	8.85	11.52	11.02	7.51	6.83	8.89	(11.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

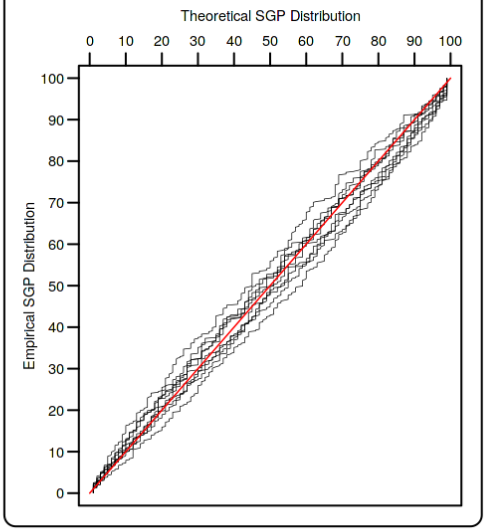
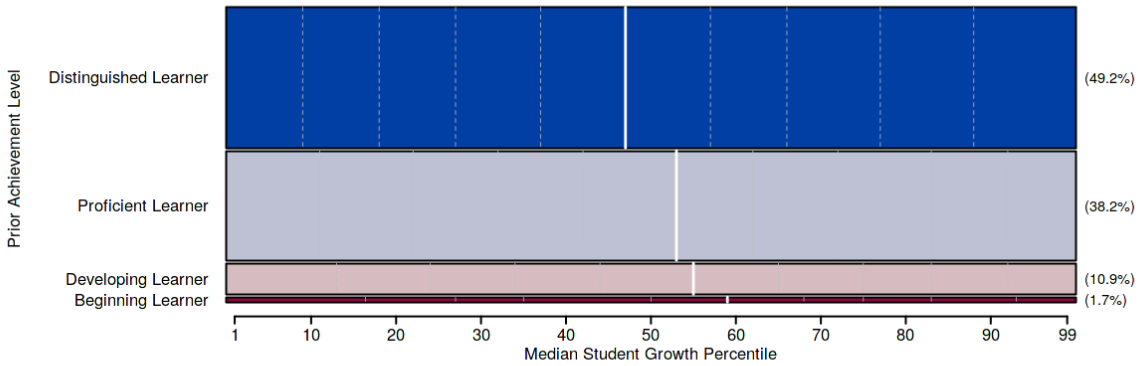


Fig. A.90: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Math Grade 7 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX Ranked, Grade EOCT (N = 23,623)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[319,407)	80.0	10.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 20
	[407,415]	64.5	6.5	9.7	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 31
Highest OSS:	[785]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 206

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[386,518)	6.86	7.20	8.14	11.30	9.04	10.32	10.27	12.36	11.85	12.66	(9.9%)
2nd/[518,536)	8.93	9.94	8.45	10.53	10.37	8.24	10.74	10.53	11.16	11.11	(8%)
3rd/[536,554)	8.37	8.80	9.15	9.12	10.18	10.25	7.81	11.98	9.19	15.16	(12%)
4th/[554,566)	8.30	9.74	8.39	10.10	12.43	11.22	7.45	8.98	11.40	11.98	(9.4%)
5th/[566,578)	8.89	10.83	9.62	7.19	11.90	7.19	12.09	10.64	11.07	10.59	(8.7%)
6th/[578,592)	10.90	10.56	10.04	11.01	7.35	11.04	11.34	8.40	10.34	9.03	(11.3%)
7th/[592,605)	9.74	8.91	13.65	10.22	10.30	8.70	9.52	9.70	10.22	9.04	(9.7%)
8th/[605,623)	10.50	9.48	12.59	9.69	9.90	8.79	10.20	9.39	10.93	8.54	(9.9%)
9th/[623,650)	9.96	11.93	8.91	11.29	9.64	9.78	11.61	10.28	7.86	8.73	(9.3%)
10th/[650,740]	12.43	11.78	10.59	10.59	8.96	12.75	9.68	8.02	6.97	8.24	(11.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

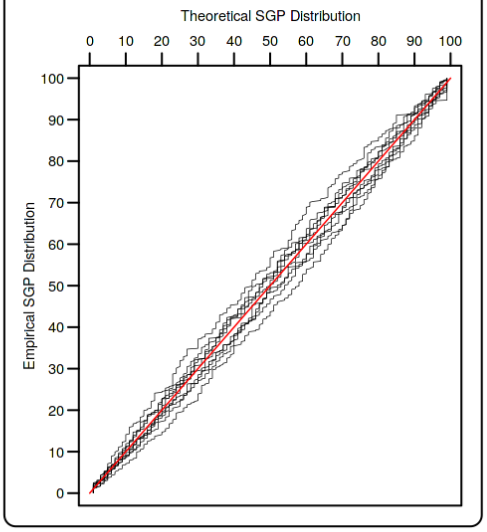
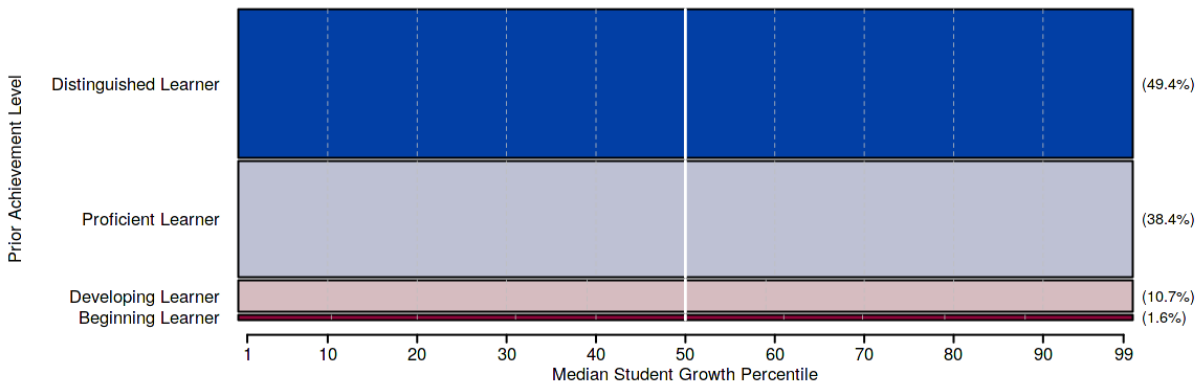


Fig. A.91: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Math Grade 7, 2017 Math Grade 6 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP, Grade EOCT (N = 22,877)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[319,413)	87.5	8.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[413,420]	64.5	12.9	19.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 31
Highest OSS:	[785]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 199

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[386,518)	9.36	9.73	10.32	9.86	9.68	10.09	9.91	10.14	10.27	10.64	(9.6%)
2nd/[518,539)	10.04	10.26	10.26	9.78	10.95	9.30	10.34	10.08	9.82	9.17	(10.1%)
3rd/[539,554)	9.29	10.31	8.98	9.96	9.64	10.22	9.69	9.82	10.18	11.91	(9.8%)
4th/[554,569)	8.96	9.08	10.46	10.33	9.08	11.46	10.00	9.92	9.50	11.21	(10.5%)
5th/[569,578)	10.02	10.64	9.74	10.30	9.46	8.85	9.80	10.69	10.58	9.91	(7.8%)
6th/[578,592)	10.20	10.43	10.28	9.21	10.77	10.43	10.01	9.09	10.05	9.55	(11.4%)
7th/[592,605)	9.07	9.57	11.09	10.91	10.64	8.85	10.55	9.57	9.34	10.42	(9.8%)
8th/[605,623)	9.47	10.44	9.47	10.88	9.25	9.86	9.69	10.35	10.30	10.30	(9.9%)
9th/[623,650)	9.24	9.38	9.38	8.58	10.03	10.77	9.79	11.15	10.49	11.19	(9.4%)
10th/[650,740]	9.66	10.30	10.04	10.30	10.04	9.96	10.04	9.66	9.10	10.90	(11.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

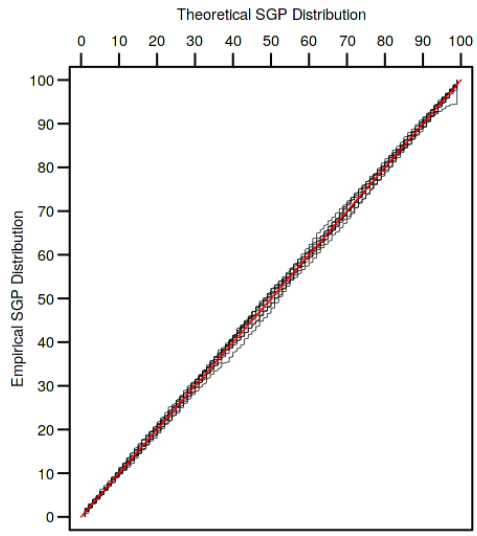
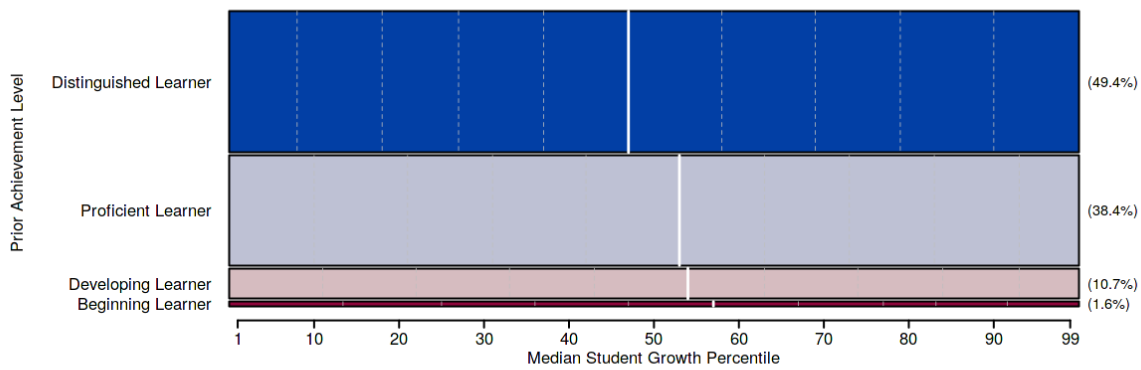


Fig. A.92: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Math Grade 7, 2017 Math Grade 6 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX, Grade EOCT (N = 22,877)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[319,413)	75.0	12.5	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[413,420]	58.1	12.9	12.9	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 31
Highest OSS:	[785]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 199

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[386,518)	8.08	8.81	8.68	9.32	8.77	10.55	10.05	11.14	10.68	13.93	(9.6%)
2nd/[518,539)	9.43	9.56	9.56	8.74	10.60	9.69	9.43	10.52	10.04	12.43	(10.1%)
3rd/[539,554)	9.33	9.29	8.58	9.47	9.33	10.04	9.47	9.16	10.18	15.16	(9.8%)
4th/[554,569)	9.00	9.08	10.00	9.92	7.88	11.04	10.29	8.96	9.04	14.79	(10.5%)
5th/[569,578)	10.92	9.91	9.01	10.47	8.85	8.62	8.79	10.36	10.58	12.49	(7.8%)
6th/[578,592)	11.04	10.39	9.63	8.98	10.50	9.93	9.43	8.67	9.63	11.80	(11.4%)
7th/[592,605)	10.51	9.79	10.64	11.04	9.48	8.18	9.52	9.75	9.66	11.44	(9.8%)
8th/[605,623)	11.36	10.79	9.73	11.10	8.63	8.94	9.29	9.73	10.00	10.44	(9.9%)
9th/[623,650)	11.66	10.07	9.93	8.96	10.35	9.00	9.75	9.56	9.56	11.15	(9.4%)
10th/[650,740]	13.84	10.49	11.16	10.71	9.37	9.22	8.84	9.59	7.31	9.48	(11.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

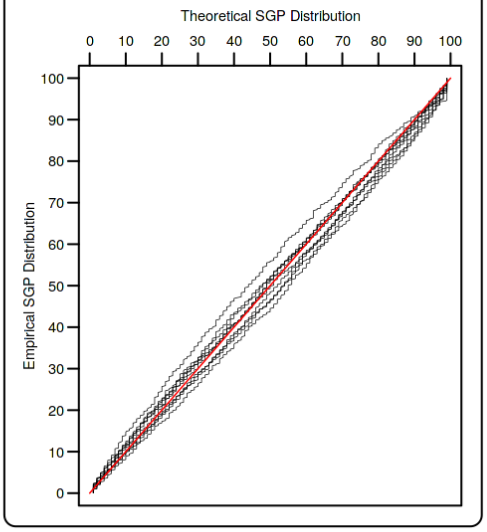
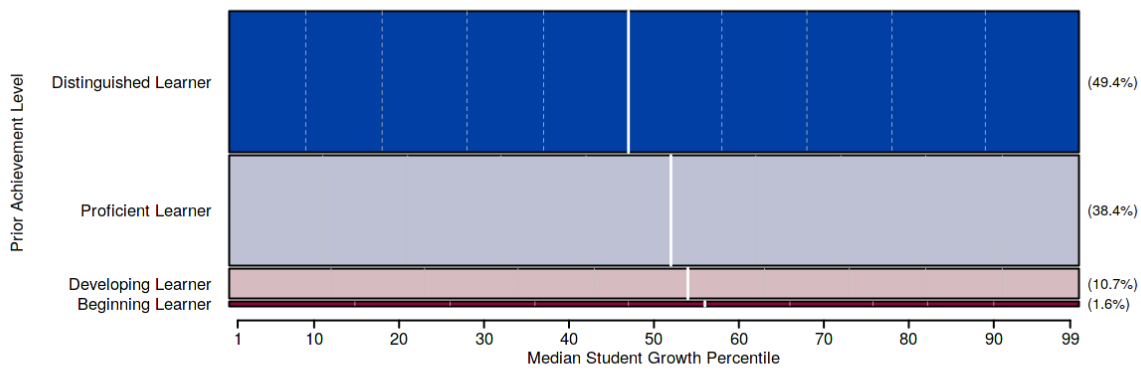


Fig. A.93: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Math Grade 7, 2017 Math Grade 6 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX Ranked, Grade EOCT (N = 22,877)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[319,413)	75.0	8.3	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[413,420]	58.1	9.7	16.1	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 31
Highest OSS:	[785]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 199

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[386,518)	7.17	9.00	8.68	9.54	9.32	11.28	9.95	12.05	10.59	12.42	(9.6%)
2nd/[518,539)	8.74	9.34	9.78	9.13	10.95	10.08	9.91	10.60	10.13	11.34	(10.1%)
3rd/[539,554)	8.27	9.47	8.93	9.60	9.78	10.22	10.18	9.42	10.76	13.38	(9.8%)
4th/[554,569)	8.08	9.08	10.25	10.04	8.58	11.62	10.38	9.71	9.75	12.50	(10.5%)
5th/[569,578)	9.63	10.64	9.01	10.75	9.41	8.79	9.57	10.36	11.42	10.41	(7.8%)
6th/[578,592)	10.20	10.16	10.43	9.09	10.73	10.58	9.89	8.98	10.54	9.40	(11.4%)
7th/[592,605)	9.43	9.70	11.04	10.95	10.68	8.36	10.37	9.88	10.01	9.57	(9.8%)
8th/[605,623)	10.26	10.88	10.39	10.92	9.16	9.34	10.13	9.51	10.39	9.03	(9.9%)
9th/[623,650)	10.35	10.40	10.03	8.63	11.66	9.47	9.98	10.35	9.61	9.51	(9.4%)
10th/[650,740]	12.31	11.08	11.16	11.19	9.81	9.93	9.59	9.14	7.54	8.25	(11.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

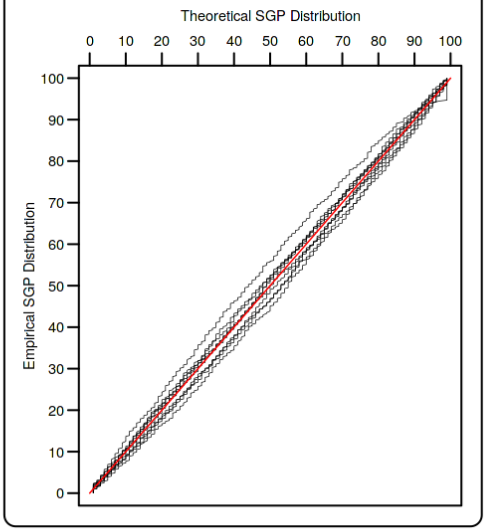
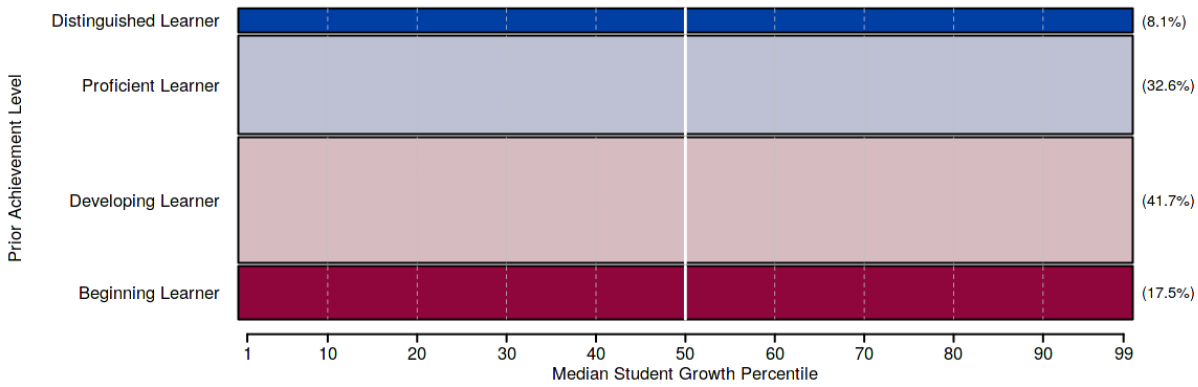


Fig. A.94: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Math Grade 8 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP, Grade EOCT (N = 71,695)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[200,352]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
	[352,363]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 31
Highest OSS:	[747,785)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	18.2	72.7	N = 22
	[785]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 37

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[338,459)	10.10	10.04	10.69	9.53	10.22	10.16	9.79	9.84	9.37	10.26	(9.7%)
2nd/[459,479)	9.00	9.38	10.01	9.46	9.81	10.59	9.89	10.34	10.44	11.09	(10.2%)
3rd/[479,491)	9.74	10.81	9.52	11.08	9.66	9.55	10.13	10.04	9.99	9.50	(8.8%)
4th/[491,503)	9.30	9.67	10.22	10.15	10.31	9.83	10.03	9.59	10.06	10.84	(10.4%)
5th/[503,516)	10.17	10.06	10.21	9.47	10.23	9.90	10.08	9.51	9.81	10.57	(10.7%)
6th/[516,527)	9.36	9.20	10.30	9.72	8.96	11.02	9.72	10.96	10.15	10.63	(9.4%)
7th/[527,538)	8.65	10.78	9.58	10.73	10.45	9.33	10.65	10.06	9.75	10.02	(9%)
8th/[538,554)	10.18	10.32	9.65	9.98	9.93	9.37	10.13	9.51	10.16	10.77	(11%)
9th/[554,573)	9.60	9.83	10.38	10.05	10.53	10.35	9.59	9.76	9.55	10.36	(9.9%)
10th/[573,755]	9.31	9.96	10.10	9.82	9.59	10.15	10.11	10.25	10.26	10.46	(10.9%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

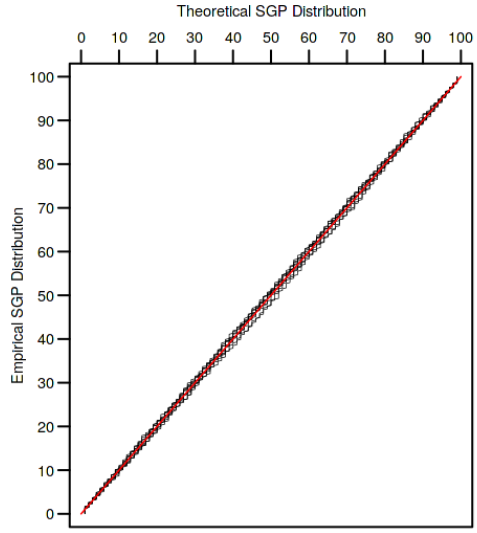
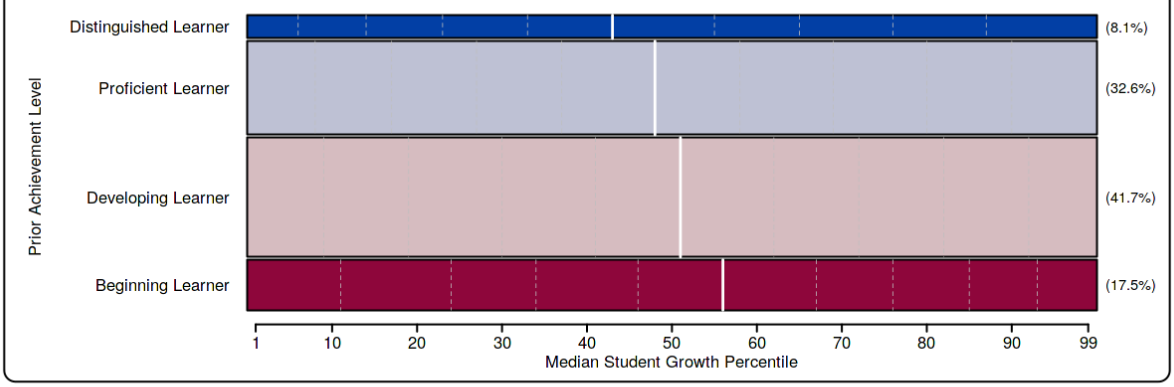


Fig. A.95: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Math Grade 8 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX, Grade EOCT (N = 71,695)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[200,352)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
	[352,363]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 31
Highest OSS:	[747,785)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2	9.1	72.7	N = 22
	[785]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 37

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[338,459)	7.97	8.46	9.51	8.20	9.04	11.23	8.73	9.97	11.98	14.91	(9.7%)
2nd/[459,479)	8.60	8.20	8.75	9.19	10.13	7.31	10.89	10.79	12.08	14.06	(10.2%)
3rd/[479,491)	10.30	9.94	9.12	10.78	7.45	9.20	10.26	10.56	10.45	11.95	(8.8%)
4th/[491,503)	10.31	9.69	8.75	10.37	8.66	9.51	9.32	9.83	10.77	12.79	(10.4%)
5th/[503,516)	11.48	10.09	10.94	8.17	9.12	9.43	8.08	10.04	10.22	12.44	(10.7%)
6th/[516,527)	10.96	9.49	9.54	8.06	9.96	10.28	8.24	10.25	11.03	12.18	(9.4%)
7th/[527,538)	11.15	10.92	8.88	9.49	9.14	9.63	9.69	10.08	10.64	10.39	(9%)
8th/[538,554)	12.64	10.09	10.88	10.41	8.39	8.07	8.82	9.56	9.46	11.67	(11%)
9th/[554,573)	12.56	11.95	8.46	11.71	8.52	9.38	9.53	8.56	8.58	10.74	(9.9%)
10th/[573,755]	13.78	11.98	9.22	10.90	10.16	8.78	8.91	8.53	8.68	9.06	(10.9%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

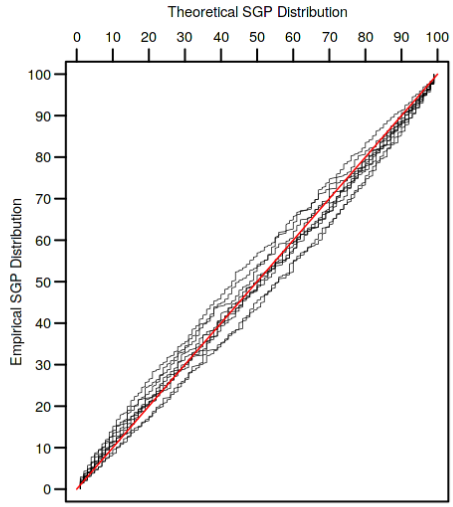
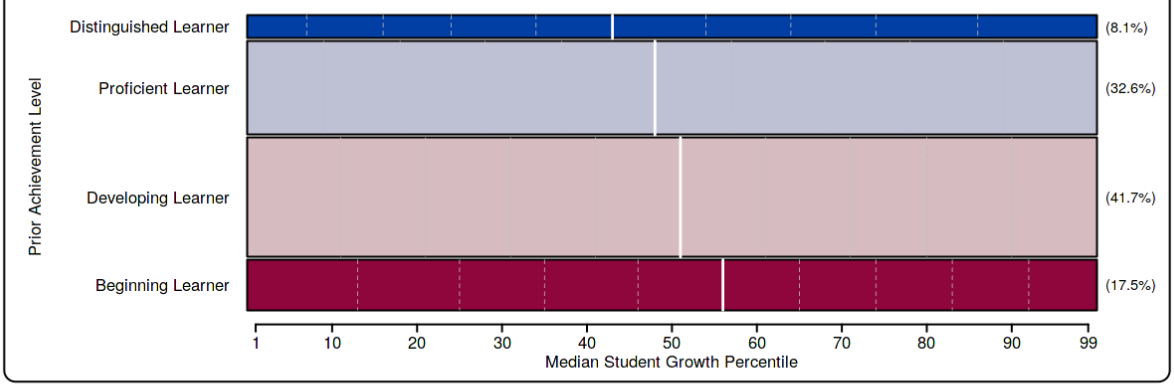


Fig. A.96: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Math Grade 8 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX Ranked, Grade EOCT (N = 71,695)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[200,352)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
	[352,363]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 31
Highest OSS:	[747,785)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.3	0.0	72.7	N = 22
	[785]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 37

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[338,459)	7.37	7.70	9.20	9.11	9.80	11.88	9.63	10.49	11.93	12.89	(9.7%)
2nd/[459,479)	7.31	8.08	9.67	8.60	11.22	9.70	9.74	11.70	11.55	12.45	(10.2%)
3rd/[479,491)	8.76	10.86	8.46	9.70	10.32	9.82	9.82	12.26	9.63	10.38	(8.8%)
4th/[491,503)	8.30	10.45	10.02	10.37	8.66	10.31	9.56	10.38	10.95	11.01	(10.4%)
5th/[503,516)	9.99	9.71	10.84	8.51	10.74	9.48	9.55	10.38	9.82	10.99	(10.7%)
6th/[516,527)	9.39	9.79	8.41	10.11	10.31	10.55	10.39	9.26	10.76	11.03	(9.4%)
7th/[527,538)	9.33	10.09	10.87	8.93	10.36	10.25	11.82	8.68	10.53	9.14	(9%)
8th/[538,554)	10.67	10.97	10.83	11.44	9.05	8.52	10.86	9.10	8.39	10.17	(11%)
9th/[554,573)	10.94	11.12	10.64	11.98	9.17	10.48	9.32	8.16	8.72	9.48	(9.9%)
10th/[573,755]	11.91	11.85	10.52	11.08	10.69	9.23	9.70	9.19	8.09	7.73	(10.9%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

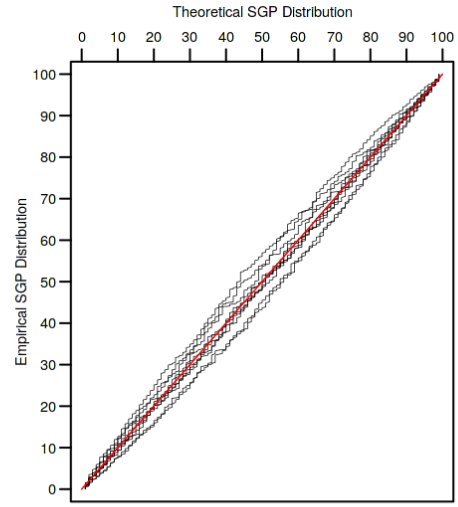
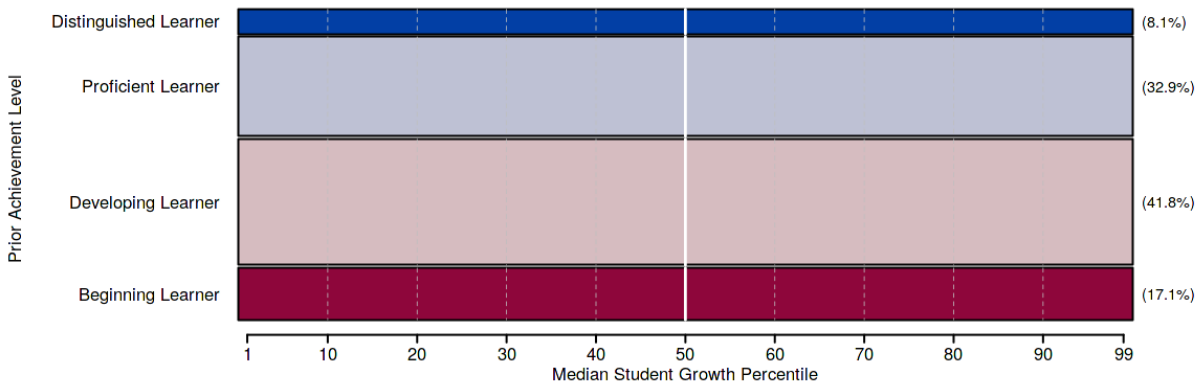


Fig. A.97: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Math Grade 8, 2017 Math Grade 7 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP, Grade EOCT (N = 68,026)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[200,363)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
	[363,364]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 33
Highest OSS:	[747,785)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	20.0	75.0	N = 20
	[785]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 34

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[338,459)	9.88	10.13	10.07	10.46	10.30	9.95	9.62	9.67	9.82	10.10	(9.5%)
2nd/[459,479)	9.05	9.78	9.66	9.43	9.52	9.97	10.45	10.73	10.13	11.29	(10%)
3rd/[479,493)	9.95	9.80	10.38	9.77	10.14	10.33	10.04	9.67	9.92	10.01	(10.4%)
4th/[493,505)	9.06	10.21	9.77	10.68	10.04	10.18	10.04	9.66	10.02	10.34	(10%)
5th/[505,516)	10.00	10.44	10.37	9.90	9.83	9.16	9.73	10.07	9.76	10.74	(9.5%)
6th/[516,527)	9.26	9.65	9.84	9.67	10.33	9.91	9.42	10.63	10.77	10.52	(9.5%)
7th/[527,538)	9.02	9.89	9.86	10.21	9.96	10.86	10.23	9.86	10.02	10.09	(9.1%)
8th/[538,554)	9.88	9.89	9.91	9.97	9.95	9.72	10.60	9.88	9.49	10.70	(11.1%)
9th/[554,573)	9.64	10.26	10.24	10.10	9.86	9.79	10.35	9.29	10.02	10.45	(10%)
10th/[573,755]	9.41	9.89	9.92	9.90	10.12	10.10	9.51	10.49	10.05	10.60	(11%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

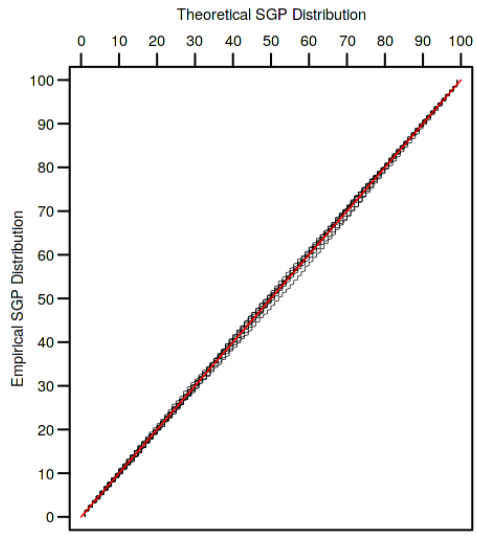
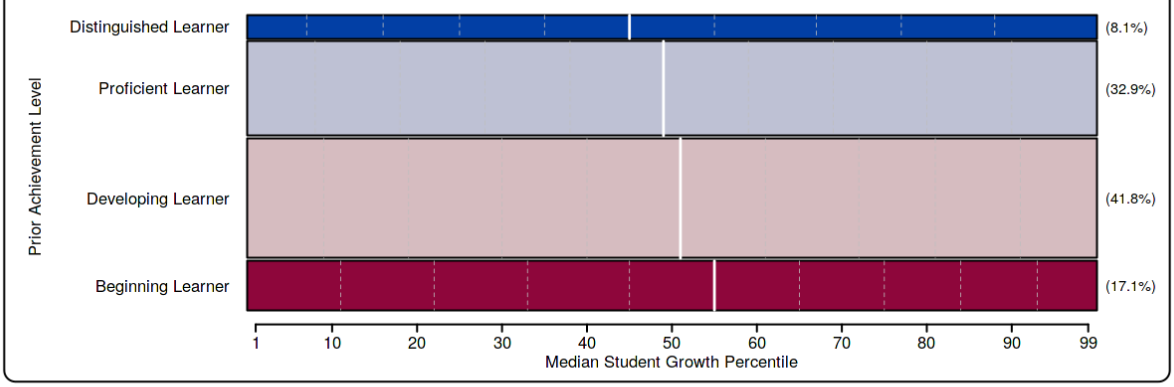


Fig. A.98: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Math Grade 8, 2017 Math Grade 7 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX, Grade EOCT (N = 68,026)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[200,363)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
	[363,364]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 33
Highest OSS:	[747,785)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	30.0	55.0	N = 20
	[785]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 34

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[338,459)	8.58	8.84	8.98	8.95	9.68	9.42	10.24	10.49	10.77	14.05	(9.5%)
2nd/[459,479)	8.72	9.27	8.97	8.43	9.08	9.38	10.51	11.17	10.88	13.59	(10%)
3rd/[479,493)	10.21	9.46	9.71	9.54	9.26	9.94	9.82	10.15	10.31	11.61	(10.4%)
4th/[493,505)	9.64	10.14	9.67	9.92	9.35	9.54	9.63	9.99	10.43	11.69	(10%)
5th/[505,516)	10.82	10.66	10.06	9.39	9.27	8.74	8.70	10.30	10.06	12.01	(9.5%)
6th/[516,527)	10.29	9.65	9.59	9.29	9.96	9.18	9.18	10.60	10.54	11.72	(9.5%)
7th/[527,538)	10.57	10.02	10.00	9.63	9.58	10.09	9.79	9.36	9.92	11.02	(9.1%)
8th/[538,554)	11.61	10.35	10.13	9.34	9.23	9.77	9.65	9.36	9.22	11.34	(11.1%)
9th/[554,573)	11.61	10.92	10.49	9.73	9.49	9.42	9.55	8.60	9.41	10.77	(10%)
10th/[573,755]	12.88	10.28	10.72	9.45	10.36	9.65	8.59	9.53	9.10	9.45	(11%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

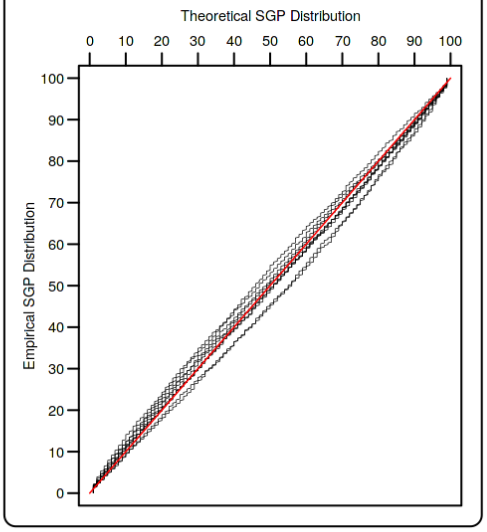
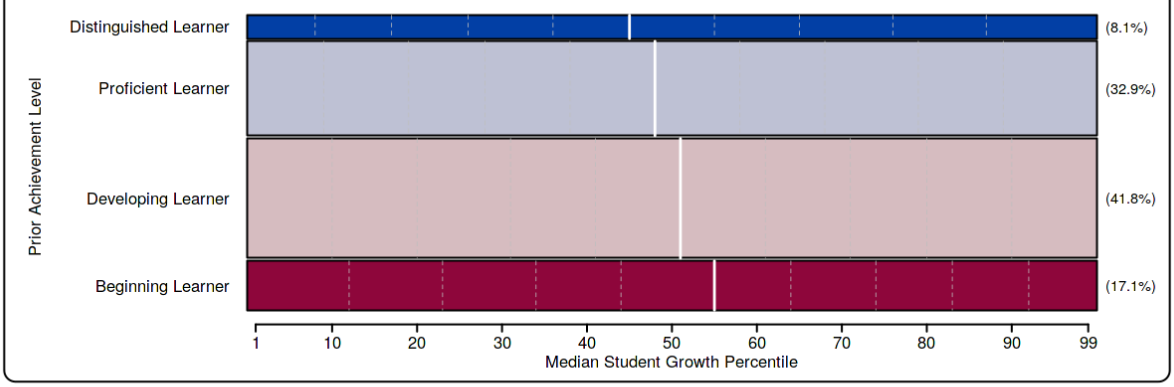


Fig. A.99: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Math Grade 8, 2017 Math Grade 7 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX Ranked, Grade EOCT (N = 68,026)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[200,363)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
	[363,364]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 33
Highest OSS:	[747,785)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	25.0	55.0	N = 20
	[785]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 34

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[338,459)	7.55	8.94	8.92	9.68	10.12	10.07	10.38	10.94	10.40	13.01	(9.5%)
2nd/[459,479)	7.89	9.13	9.35	8.89	9.49	9.82	11.10	11.39	10.75	12.19	(10%)
3rd/[479,493)	9.10	9.56	9.91	10.28	9.53	10.42	10.40	10.25	10.04	10.52	(10.4%)
4th/[493,505)	8.51	10.10	9.90	10.61	9.88	10.15	9.79	10.18	10.24	10.64	(10%)
5th/[505,516)	9.73	10.63	10.46	9.79	9.83	9.33	9.24	10.18	9.86	10.95	(9.5%)
6th/[516,527)	9.34	9.81	9.57	9.79	10.46	9.74	9.74	10.58	10.43	10.54	(9.5%)
7th/[527,538)	9.52	10.07	10.04	10.25	10.25	10.60	10.04	9.60	9.96	9.68	(9.1%)
8th/[538,554)	10.49	10.51	10.01	10.20	9.68	10.28	9.85	9.52	9.38	10.08	(11.1%)
9th/[554,573)	10.70	10.94	10.86	10.05	10.02	10.13	9.43	8.58	9.89	9.39	(10%)
10th/[573,755]	11.55	10.60	10.98	9.93	10.98	9.98	9.04	9.69	8.91	8.33	(11%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

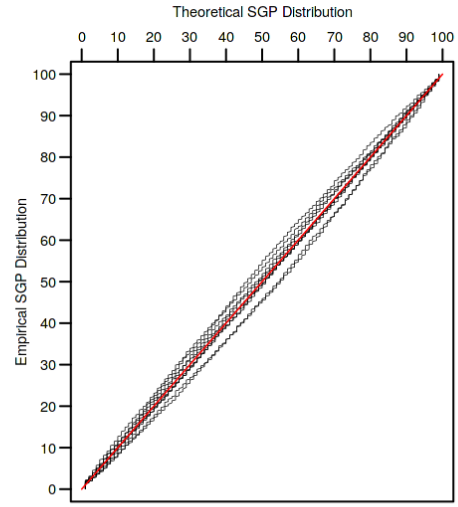
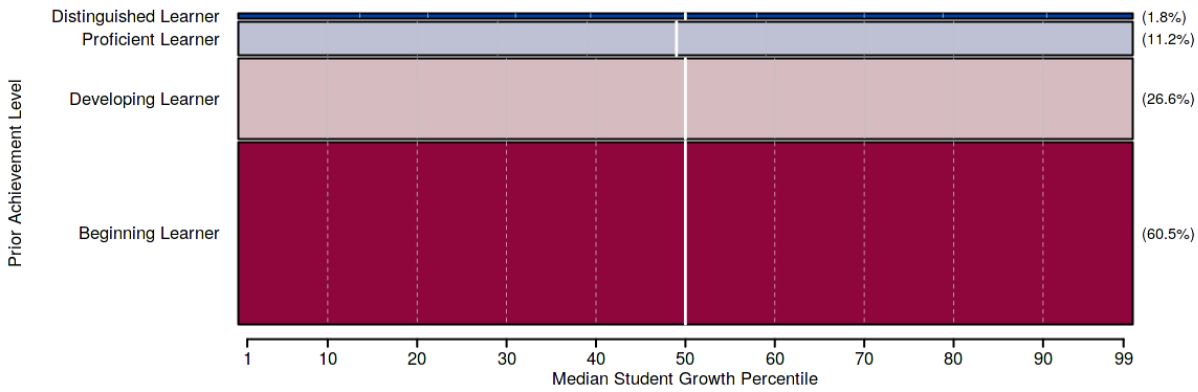


Fig. A.100: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Algebra I - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP, Grade EOCT (N = 8,223)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[200,375)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
	[375,383]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[677,689)	0.0	0.0	0.0	0.0	0.0	13.3	13.3	0.0	0.0	33.3	13.3	26.7	N = 15
	[689,785]	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	18.4	10.5	13.2	47.4	N = 38

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[338,424)	9.99	10.35	9.99	9.74	9.14	11.21	9.38	10.35	9.74	10.11	(10%)
2nd/[424,438)	10.78	8.33	9.93	10.17	10.78	8.82	11.27	10.05	10.42	9.44	(9.9%)
3rd/[438,447)	8.71	9.94	11.29	10.06	9.94	10.31	8.34	9.69	9.69	12.02	(9.9%)
4th/[447,453)	9.36	12.95	8.37	11.35	7.57	11.35	9.96	9.96	8.17	10.96	(6.1%)
5th/[453,463)	8.89	9.26	11.04	10.66	10.38	9.17	10.20	8.89	10.66	10.85	(13%)
6th/[463,472)	10.11	10.24	7.99	10.36	9.61	8.99	12.11	10.11	11.11	9.36	(9.7%)
7th/[472,485)	10.49	9.12	10.26	10.03	10.38	10.03	9.12	10.60	10.60	9.35	(10.7%)
8th/[485,506)	8.23	10.93	10.69	9.46	9.71	11.55	9.58	10.20	7.49	12.16	(9.9%)
9th/[506,537)	10.31	9.29	9.40	10.53	10.19	9.17	10.65	9.51	11.10	9.85	(10.7%)
10th/[537,740]	9.58	10.42	10.06	9.94	9.58	10.06	9.70	10.30	9.94	10.42	(10%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

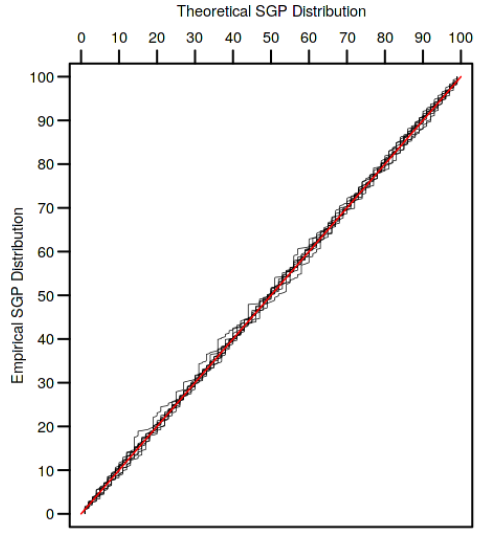
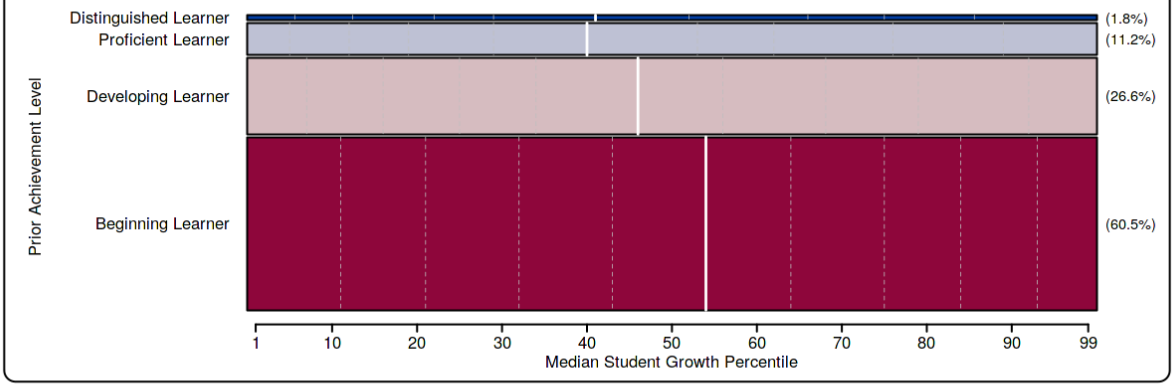


Fig. A.101: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Algebra I - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX, Grade EOCT (N = 8,223)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[200,375)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
	[375,383]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[677,689)	0.0	0.0	0.0	0.0	13.3	0.0	13.3	0.0	33.3	6.7	13.3	20.0	N = 15
	[689,785]	0.0	0.0	0.0	0.0	0.0	0.0	10.5	7.9	23.7	2.6	5.3	50.0	N = 38

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[338,424)	7.80	8.89	10.48	6.21	9.87	9.14	10.84	12.18	10.11	14.49	(10%)
2nd/[424,438)	9.19	8.21	7.35	9.56	8.70	9.68	11.27	9.80	12.99	13.24	(9.9%)
3rd/[438,447)	7.98	8.34	10.80	9.45	9.33	8.59	9.45	8.96	12.27	14.85	(9.9%)
4th/[447,453)	9.36	11.35	9.16	9.76	8.37	9.76	7.77	7.17	14.54	12.75	(6.1%)
5th/[453,463)	8.89	9.07	10.76	8.42	11.13	8.42	9.45	8.42	11.97	13.47	(13%)
6th/[463,472)	11.36	9.74	8.49	8.24	8.99	8.49	12.61	8.11	12.61	11.36	(9.7%)
7th/[472,485)	11.74	9.46	11.74	9.12	9.46	9.24	8.55	9.58	9.35	11.74	(10.7%)
8th/[485,506)	12.04	13.14	9.83	9.83	8.35	10.32	7.99	9.34	6.39	12.78	(9.9%)
9th/[506,537)	16.31	11.55	8.95	10.65	8.04	9.17	10.87	7.36	7.70	9.40	(10.7%)
10th/[537,740]	14.79	15.03	10.67	9.09	7.27	8.48	9.33	8.12	8.00	9.21	(10%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

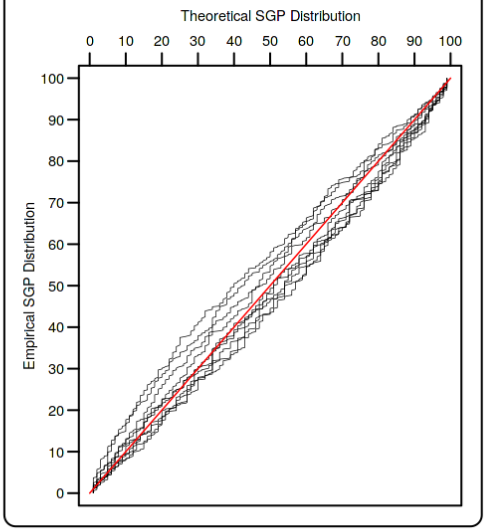
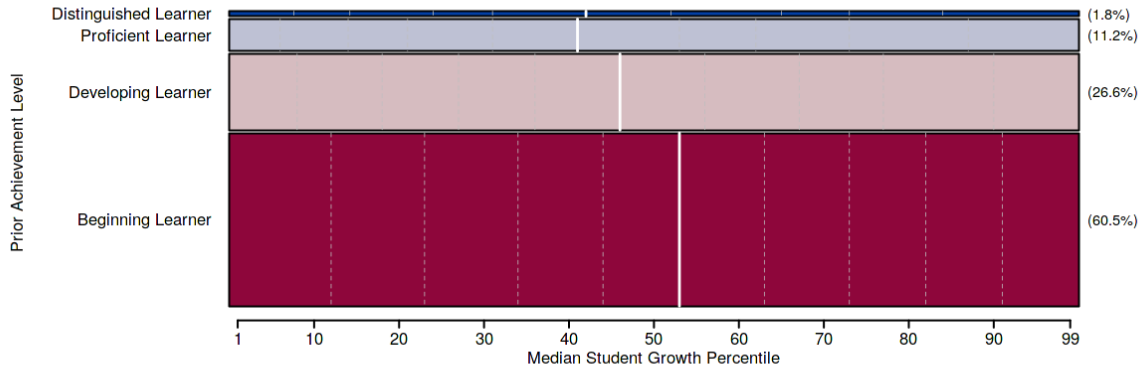


Fig. A.102: Goodness of Fit Plot for 2019 Algebra I (Priors 2018 Algebra I - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX Ranked, Grade EOCT (N = 8,223)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[200,375)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
	[375,383]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[677,689)	0.0	0.0	0.0	0.0	13.3	0.0	13.3	0.0	33.3	6.7	20.0	13.3	N = 15
	[689,785]	0.0	0.0	0.0	0.0	0.0	0.0	10.5	7.9	23.7	2.6	13.2	42.1	N = 38

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[338,424)	7.19	7.43	10.35	8.40	9.87	11.33	10.84	11.57	10.48	12.55	(10%)
2nd/[424,438)	7.48	9.07	7.23	9.56	9.68	11.03	11.03	10.54	13.36	11.03	(9.9%)
3rd/[438,447)	6.38	7.73	12.15	8.59	11.04	10.06	8.83	9.82	11.78	13.62	(9.9%)
4th/[447,453)	8.76	11.75	7.77	10.36	9.36	9.76	9.76	11.55	9.96	10.96	(6.1%)
5th/[453,463)	6.45	10.85	8.04	11.79	12.07	7.86	9.64	10.38	11.60	11.32	(13%)
6th/[463,472)	9.61	9.24	9.11	9.86	8.99	10.49	12.11	9.61	11.86	9.11	(9.7%)
7th/[472,485)	10.26	9.24	11.40	10.26	10.38	9.81	10.60	8.78	9.58	9.69	(10.7%)
8th/[485,506)	10.07	11.79	11.55	10.32	9.71	10.32	8.48	9.71	6.14	11.92	(9.9%)
9th/[506,537)	14.38	11.10	10.19	11.10	8.95	10.76	9.51	7.81	8.72	7.47	(10.7%)
10th/[537,740]	14.06	12.97	11.39	10.30	8.36	8.48	9.45	10.30	7.27	7.39	(10%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

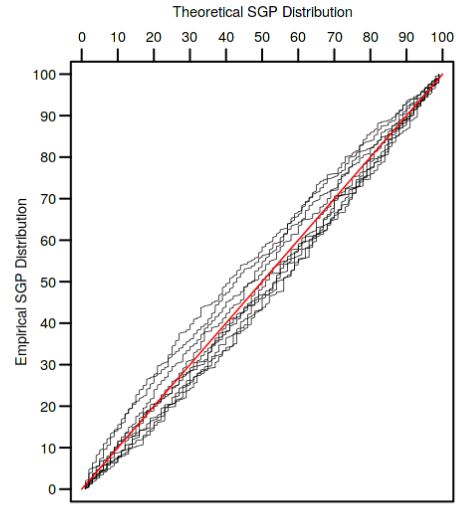
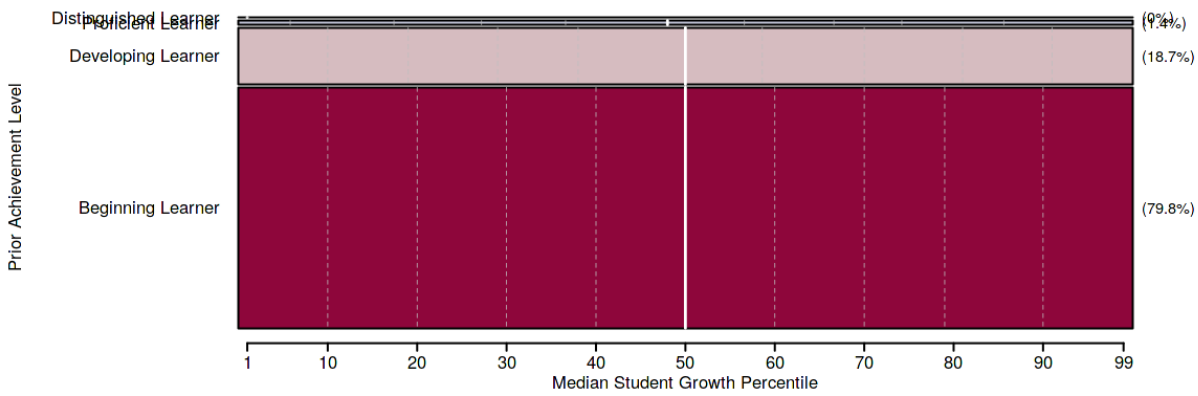


Fig. A.103: Goodness of Fit Plot for 2019 Algebra I (Priors 2019 Algebra I - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP, Grade EOCT (N = 2,651)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[200,392)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
	[392,399]	93.9	3.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 33
Highest OSS:	[539,556)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	12.0	16.0	12.0	52.0	N = 25
	[556,672]	4.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	4.0	12.0	16.0	60.0	N = 25

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[265,415)	9.92	9.16	10.69	11.83	12.60	9.16	8.78	9.92	9.16	8.78	(9.9%)
2nd/[415,432)	9.05	13.17	7.41	6.58	9.05	10.29	8.23	11.11	11.93	13.17	(9.2%)
3rd/[432,438)	13.40	7.22	10.31	10.82	7.22	8.76	11.34	8.76	11.34	10.82	(7.3%)
4th/[438,448)	9.57	9.57	11.30	11.59	9.57	10.43	10.43	9.28	7.83	10.43	(13%)
5th/[448,454)	7.84	10.29	12.25	11.76	12.25	12.25	7.84	7.84	9.31	8.33	(7.7%)
6th/[454,461)	10.17	7.80	8.81	6.10	10.51	9.49	12.20	12.88	10.17	11.86	(11.1%)
7th/[461,468)	6.55	11.64	8.73	11.64	10.18	10.18	12.00	11.64	8.00	9.45	(10.4%)
8th/[468,475)	12.08	9.40	9.73	10.40	10.74	7.05	9.73	12.08	10.40	8.39	(11.2%)
9th/[475,490)	10.12	11.28	10.12	10.89	7.78	12.06	8.17	7.78	10.51	11.28	(9.7%)
10th/[490,598]	9.71	10.43	10.43	8.99	10.79	8.99	10.43	9.35	10.07	10.79	(10.5%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

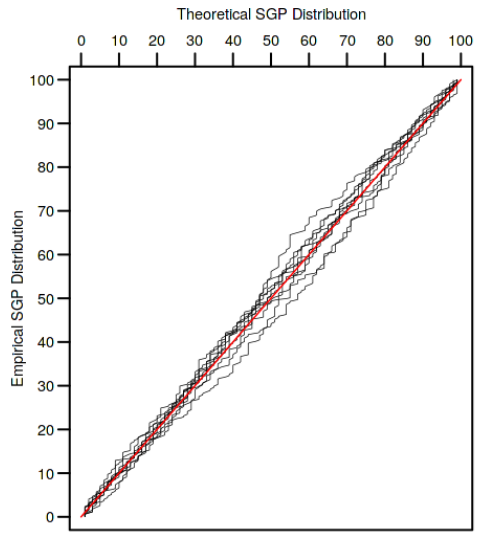
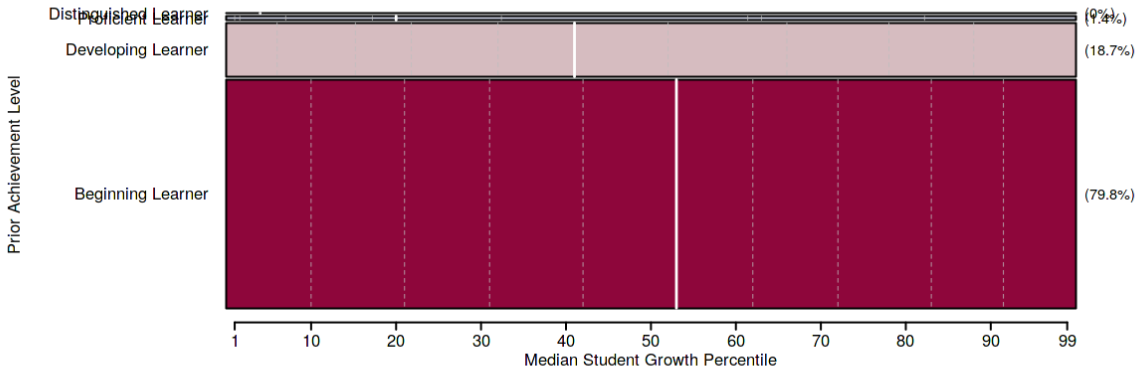


Fig. A.104: Goodness of Fit Plot for 2019 Algebra I (Priors 2019 Algebra I - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX, Grade EOCT (N = 2,651)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[200,392)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
	[392,399]	87.9	9.1	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	N = 33
Highest OSS:	[539,556)	0.0	0.0	0.0	0.0	0.0	0.0	4.0	20.0	4.0	12.0	16.0	44.0	N = 25
	[556,672]	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	16.0	12.0	56.0	N = 25

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[265,415)	8.02	9.54	7.25	8.40	12.60	7.63	9.92	12.60	10.31	13.74	(9.9%)
2nd/[415,432)	8.64	8.64	9.05	6.58	9.05	6.58	7.82	12.35	14.40	16.87	(9.2%)
3rd/[432,438)	8.76	10.31	7.22	10.31	8.25	10.31	9.28	9.79	12.37	13.40	(7.3%)
4th/[438,448)	8.41	8.41	11.01	11.88	11.01	5.80	12.17	8.70	10.14	12.46	(13%)
5th/[448,454)	7.84	10.29	12.75	11.27	11.76	11.76	6.86	8.33	10.29	8.82	(7.7%)
6th/[454,461)	10.51	7.80	8.47	6.10	9.49	10.17	8.81	13.56	12.54	12.54	(11.1%)
7th/[461,468)	8.36	11.27	10.18	12.73	5.09	11.64	8.36	13.45	8.73	10.18	(10.4%)
8th/[468,475)	15.77	10.07	10.07	8.39	8.39	8.05	11.07	9.73	8.39	10.07	(11.2%)
9th/[475,490)	12.84	11.28	15.18	7.78	7.78	10.89	7.39	7.78	9.34	9.73	(9.7%)
10th/[490,598]	18.35	12.95	10.43	11.15	7.19	7.91	8.27	7.19	8.27	8.27	(10.5%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

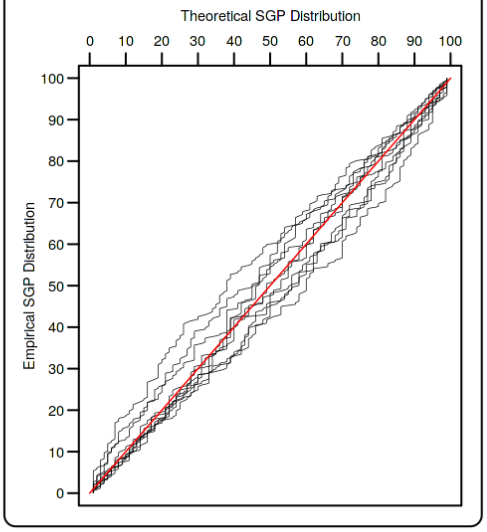
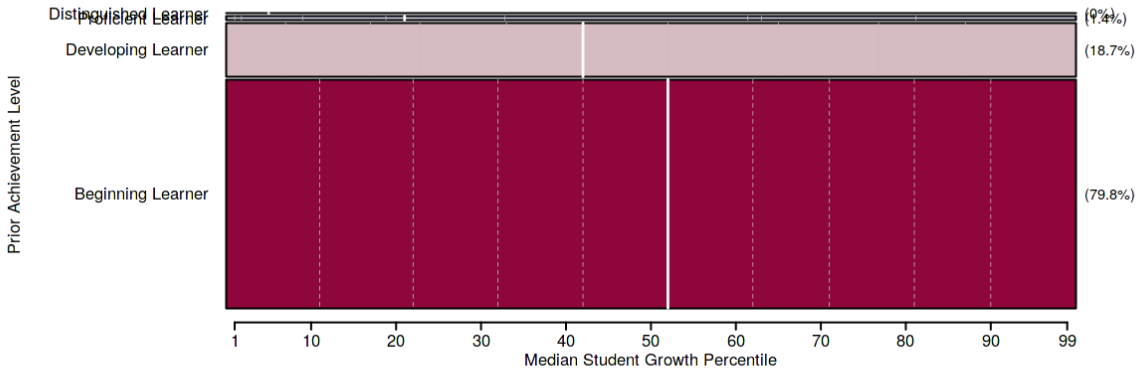


Fig. A.105: Goodness of Fit Plot for 2019 Algebra I (Priors 2019 Algebra I - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Algebra I SGP SIMEX Ranked, Grade EOCT (N = 2,651)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

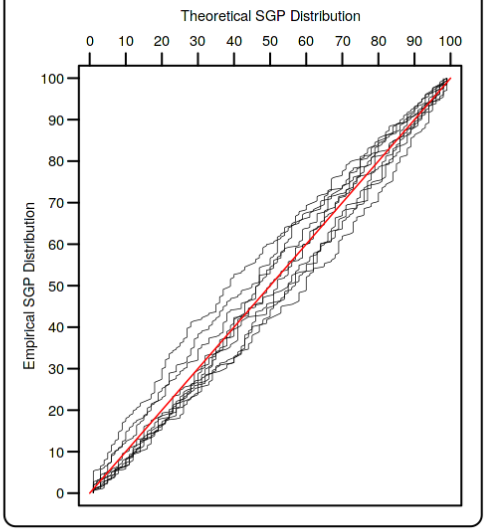
Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[200,392)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 28
	[392,399]	72.7	21.2	3.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	N = 33
Highest OSS:	[539,556)	0.0	0.0	0.0	0.0	0.0	0.0	4.0	20.0	4.0	16.0	12.0	44.0	N = 25
	[556,672]	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	16.0	12.0	56.0	N = 25

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[265,415)	6.49	9.92	7.25	7.63	14.50	7.63	9.92	14.50	9.92	12.21	(9.9%)
2nd/[415,432)	5.76	10.29	9.47	5.76	10.70	6.58	12.35	9.05	15.64	14.40	(9.2%)
3rd/[432,438)	8.25	10.31	7.73	9.79	8.76	10.31	11.34	7.73	13.40	12.37	(7.3%)
4th/[438,448)	7.25	9.28	10.72	10.43	11.88	10.43	11.59	9.57	7.54	11.30	(13%)
5th/[448,454)	6.37	8.82	14.22	11.27	13.24	12.25	6.86	8.82	9.80	8.33	(7.7%)
6th/[454,461)	9.83	8.14	6.10	8.47	9.83	10.85	12.88	9.15	12.88	11.86	(11.1%)
7th/[461,468)	6.55	12.00	8.00	12.73	8.36	12.36	11.27	12.36	6.91	9.45	(10.4%)
8th/[468,475)	12.75	11.74	7.38	12.42	8.39	11.07	8.39	9.73	9.40	8.72	(11.2%)
9th/[475,490)	12.06	10.51	14.79	9.73	7.78	12.45	5.84	10.12	7.39	9.34	(9.7%)
10th/[490,598]	17.27	10.07	14.39	10.07	8.27	7.91	8.27	8.27	7.91	7.55	(10.5%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles



3.4 Geometry

Fig. A.106: Goodness of Fit Plot for 2019 Geometry (Priors 2017 Algebra I - Uncorrected).

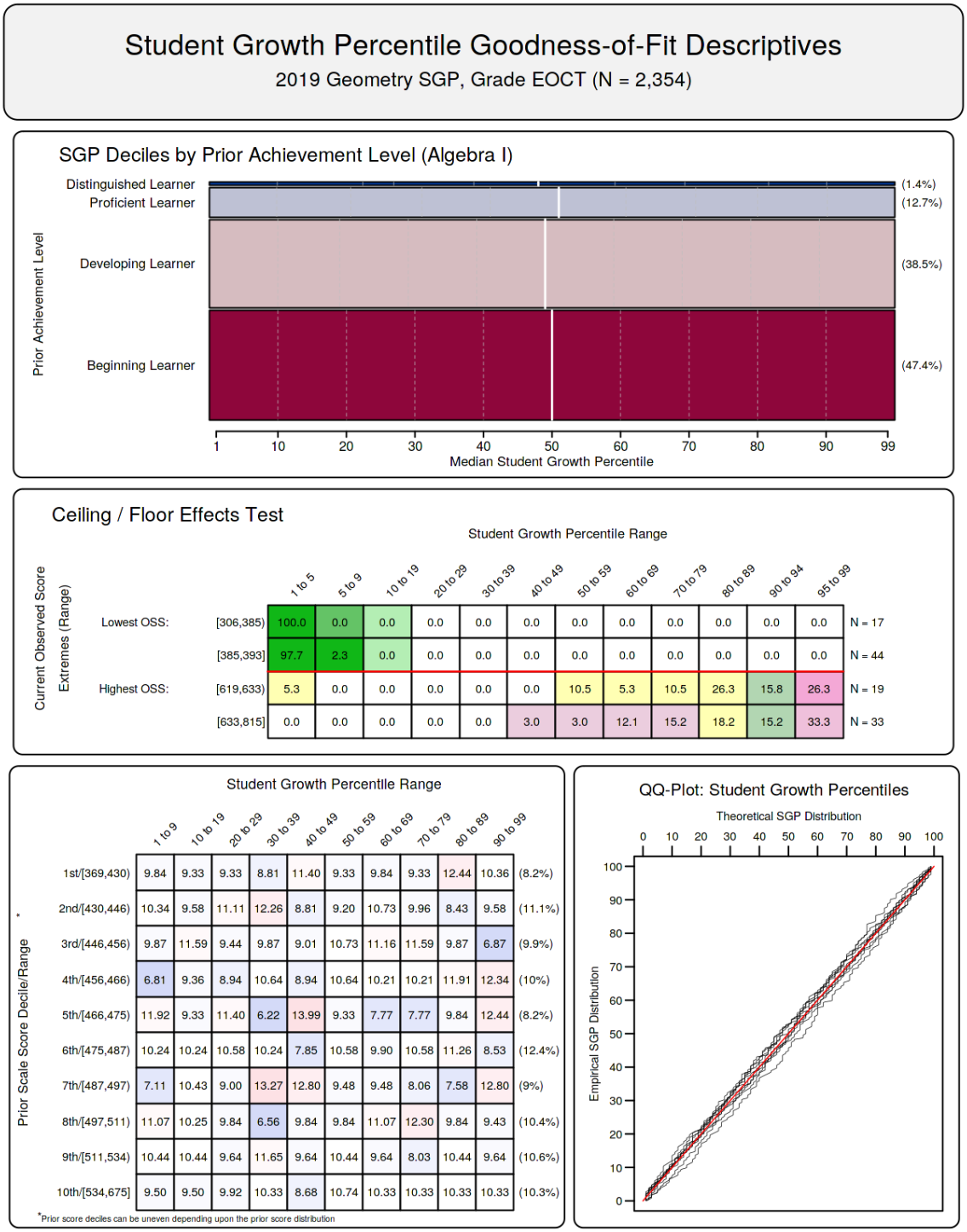
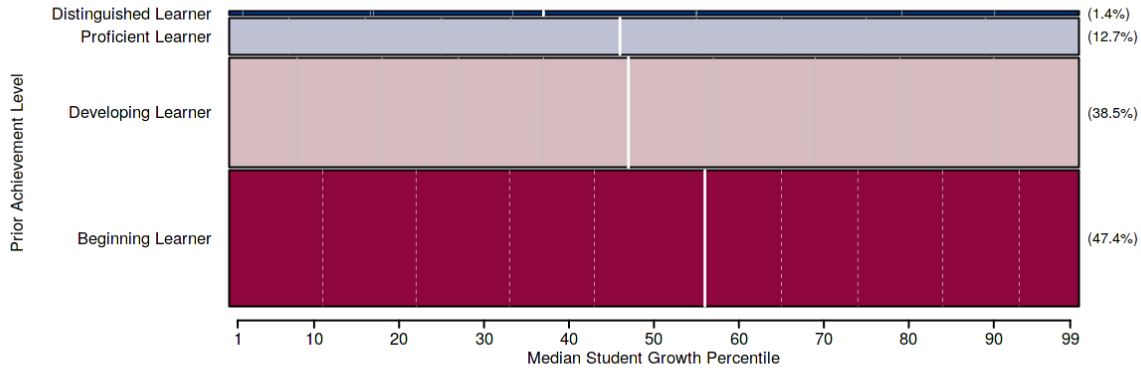


Fig. A.107: Goodness of Fit Plot for 2019 Geometry (Priors 2017 Algebra I - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP SIMEX, Grade EOCT (N = 2,354)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[306,385)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 17
	[385,393]	79.5	15.9	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 44
Highest OSS:	[619,633)	5.3	0.0	0.0	0.0	10.5	0.0	10.5	5.3	10.5	21.1	10.5	26.3	N = 19
	[633,815]	0.0	0.0	0.0	0.0	3.0	0.0	18.2	12.1	3.0	15.2	18.2	30.3	N = 33

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[369,430)	8.29	7.25	5.18	8.81	8.29	5.18	19.17	3.11	17.10	17.62	(8.2%)
2nd/[430,446)	9.96	6.13	10.73	9.20	10.73	6.90	12.64	10.73	8.43	14.56	(11.1%)
3rd/[446,456)	9.44	11.16	7.30	10.30	10.73	10.30	9.44	8.15	12.45	10.73	(9.9%)
4th/[456,466)	5.96	8.94	9.79	7.23	9.79	9.36	12.77	7.66	11.91	16.60	(10%)
5th/[466,475)	11.92	9.33	11.92	7.77	10.36	10.88	7.25	7.77	8.81	13.99	(8.2%)
6th/[475,487)	11.60	9.90	9.90	9.22	9.90	8.53	10.24	10.92	10.24	9.56	(12.4%)
7th/[487,497)	9.48	10.90	9.00	15.64	9.48	8.06	7.58	9.48	6.64	13.74	(9%)
8th/[497,511)	13.93	9.43	8.61	8.61	9.02	10.25	10.25	11.07	9.02	9.84	(10.4%)
9th/[511,534)	15.66	8.43	8.84	11.65	11.24	8.84	10.04	6.43	10.44	8.43	(10.6%)
10th/[534,675]	13.22	12.81	10.74	10.74	8.26	10.33	9.50	6.61	8.26	9.50	(10.3%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

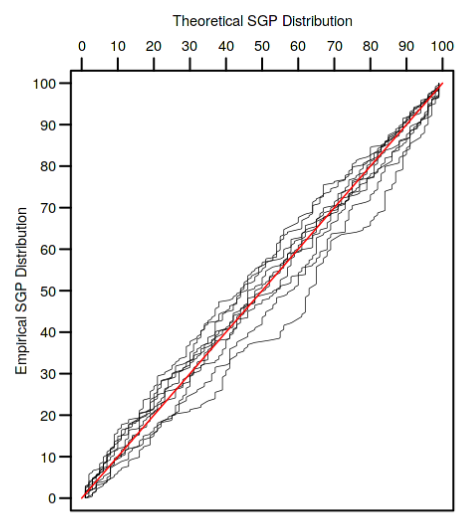
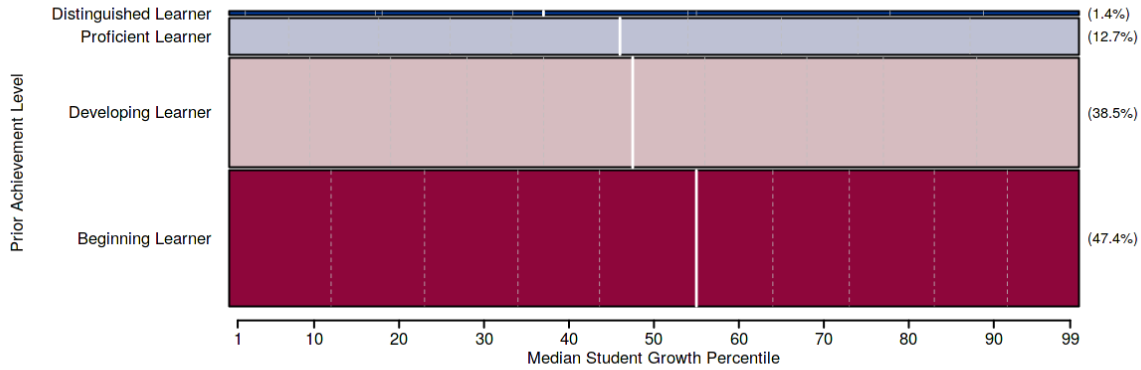


Fig. A.108: Goodness of Fit Plot for 2019 Geometry (Priors 2017 Algebra I - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP SIMEX Ranked, Grade EOCT (N = 2,354)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[306,385)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 17
	[385,393]	79.5	15.9	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 44
Highest OSS:	[619,633)	5.3	0.0	0.0	0.0	10.5	0.0	10.5	5.3	21.1	15.8	5.3	26.3	N = 19
	[633,815]	0.0	0.0	0.0	0.0	3.0	0.0	18.2	12.1	3.0	21.2	12.1	30.3	N = 33

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[369,430)	7.25	8.29	5.18	8.81	8.29	6.22	18.13	5.70	16.58	15.54	(8.2%)
2nd/[430,446)	7.66	7.66	11.49	8.81	11.11	6.90	13.03	11.49	8.81	13.03	(11.1%)
3rd/[446,456)	8.58	11.59	7.73	10.30	10.73	10.73	9.01	11.59	11.16	8.58	(9.9%)
4th/[456,466)	5.11	8.09	10.64	8.09	9.79	13.19	8.94	10.21	12.77	13.19	(10%)
5th/[466,475)	11.40	9.84	11.92	7.77	10.36	11.40	6.74	8.81	8.29	13.47	(8.2%)
6th/[475,487)	9.56	10.92	10.92	9.22	9.90	10.24	8.53	13.99	8.87	7.85	(12.4%)
7th/[487,497)	7.58	11.85	9.48	16.11	9.48	8.53	8.53	9.48	6.64	12.32	(9%)
8th/[497,511)	12.30	9.43	10.25	7.79	9.84	11.48	9.43	12.70	8.20	8.61	(10.4%)
9th/[511,534)	12.05	9.64	11.24	11.24	11.65	10.04	8.84	7.23	10.44	7.63	(10.6%)
10th/[534,675]	12.40	13.22	9.92	11.98	8.26	11.98	8.68	8.26	7.02	8.26	(10.3%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

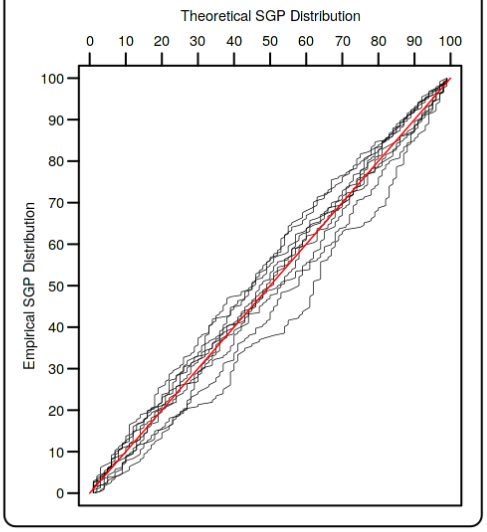
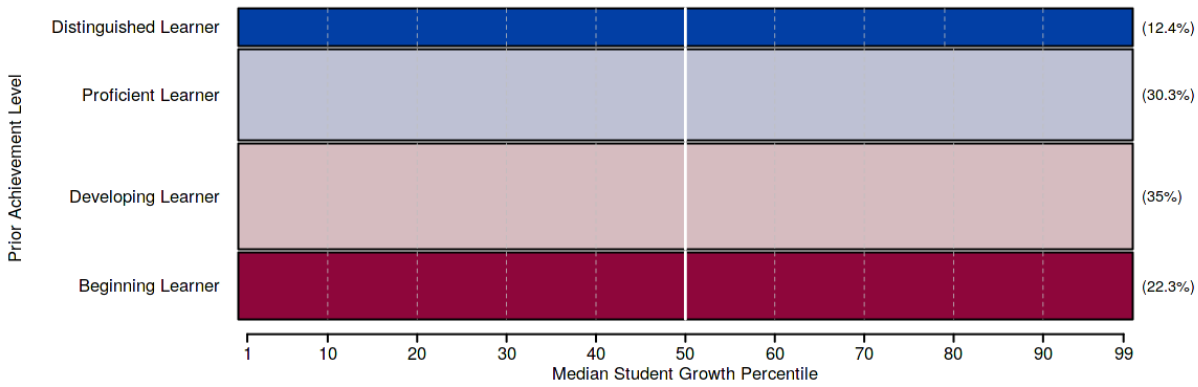


Fig. A.109: Goodness of Fit Plot for 2019 Geometry (Priors 2018 Algebra I - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP, Grade EOCT (N = 94,444)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[180,346)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 18
	[346,355]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 37
Highest OSS:	[815]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 265

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[257,448)	9.38	10.08	10.17	10.00	10.09	9.85	10.75	9.38	9.80	10.48	(8.2%)
2nd/[448,471)	9.45	10.45	9.33	10.05	10.12	10.04	9.52	10.86	9.98	10.20	(11.7%)
3rd/[471,485)	9.96	9.69	9.68	10.32	10.10	9.36	10.24	9.38	9.84	11.44	(10%)
4th/[485,498)	9.38	9.98	10.92	10.22	9.08	10.44	10.28	9.33	10.47	9.92	(8.9%)
5th/[498,514)	9.35	10.29	9.53	9.97	10.98	10.20	9.14	10.85	9.66	10.03	(10.6%)
6th/[514,529)	9.66	10.06	10.29	9.71	9.53	9.94	10.63	10.15	9.68	10.35	(9.4%)
7th/[529,547)	9.68	9.81	9.74	10.23	9.97	9.73	9.80	9.82	10.28	10.95	(10.7%)
8th/[547,571)	9.78	9.53	10.27	9.66	9.87	10.44	10.46	9.56	10.05	10.38	(10.2%)
9th/[571,601)	9.51	10.79	9.26	10.37	10.09	9.57	9.56	10.10	10.10	10.65	(9.6%)
10th/[601,785]	9.29	9.92	10.40	9.86	10.42	9.86	10.14	10.07	9.53	10.51	(10.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

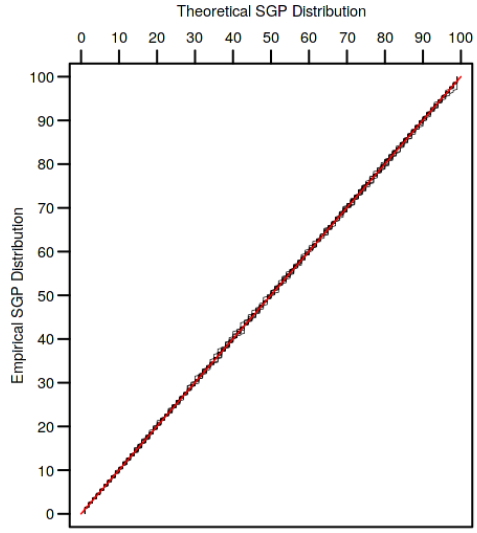
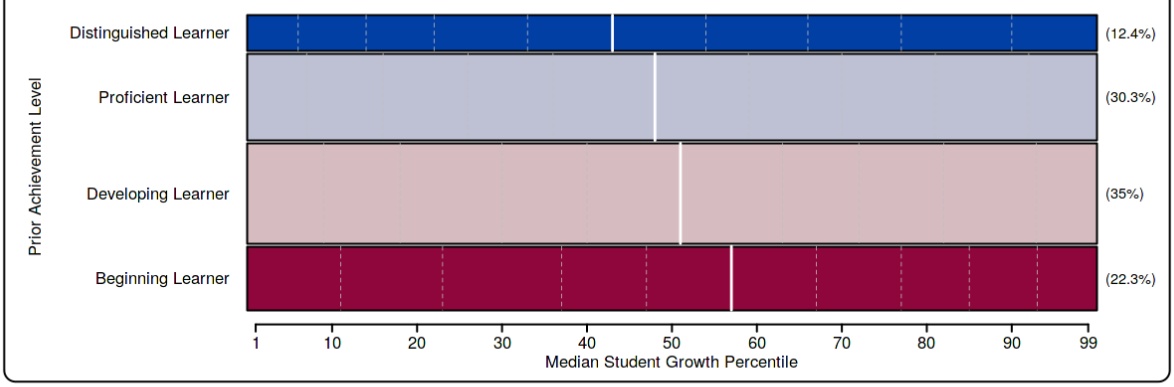


Fig. A.110: Goodness of Fit Plot for 2019 Geometry (Priors 2018 Algebra I - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP SIMEX, Grade EOCT (N = 94,444)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[180,346)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 18
	[346,355]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 37
Highest OSS:	[815]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 265

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[257,448)	7.90	6.42	9.37	8.40	9.18	10.13	9.73	11.88	11.54	15.45	(8.2%)
2nd/[448,471)	8.75	8.79	8.56	9.38	8.14	9.51	9.95	10.05	11.78	15.09	(11.7%)
3rd/[471,485)	10.06	9.91	7.97	10.83	8.03	8.75	8.61	10.83	10.17	14.85	(10%)
4th/[485,498)	10.65	9.69	9.39	8.95	9.40	9.57	9.50	8.97	10.32	13.56	(8.9%)
5th/[498,514)	10.78	10.63	8.97	10.29	8.95	9.26	9.22	9.25	10.27	12.39	(10.6%)
6th/[514,529)	12.81	9.18	8.48	9.74	8.70	10.17	8.34	10.26	10.14	12.19	(9.4%)
7th/[529,547)	12.78	9.84	10.03	9.73	8.54	7.92	9.21	8.62	10.45	12.88	(10.7%)
8th/[547,571)	12.78	11.18	9.26	9.90	9.10	9.30	9.02	8.23	9.15	12.08	(10.2%)
9th/[571,601)	14.73	10.52	10.86	8.65	9.21	8.67	8.63	8.54	8.78	11.42	(9.6%)
10th/[601,785]	14.92	12.44	10.30	9.94	8.20	9.68	8.84	9.03	6.66	10.00	(10.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

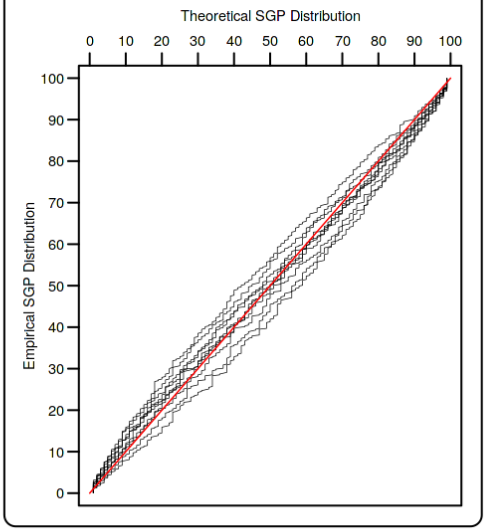
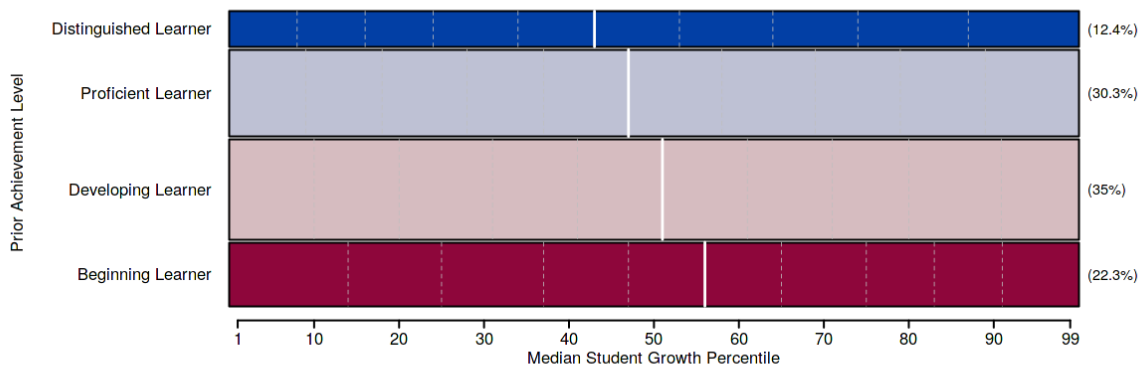


Fig. A.111: Goodness of Fit Plot for 2019 Geometry (Priors 2018 Algebra I - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP SIMEX Ranked, Grade EOCT (N = 94,444)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[180,346)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 18
	[346,355]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 37
Highest OSS:	[815]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 265

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[257,448)	5.88	7.34	8.78	8.98	10.77	10.60	10.92	11.72	12.85	12.16	(8.2%)
2nd/[448,471)	7.10	8.24	10.00	8.48	9.80	10.53	10.71	10.72	12.59	11.84	(11.7%)
3rd/[471,485)	8.39	9.35	9.08	9.17	11.30	8.82	10.18	10.43	10.66	12.62	(10%)
4th/[485,498)	8.95	9.28	9.55	9.84	11.26	10.12	10.54	9.57	9.87	11.03	(8.9%)
5th/[498,514)	9.05	11.09	9.53	10.33	9.96	10.29	9.91	10.23	9.42	10.18	(10.6%)
6th/[514,529)	9.99	11.31	8.69	10.16	8.98	10.54	9.80	11.24	9.33	9.95	(9.4%)
7th/[529,547)	10.02	10.75	10.42	10.60	9.11	8.97	9.67	9.59	10.47	10.39	(10.7%)
8th/[547,571)	10.95	10.89	9.87	10.48	10.33	10.22	9.83	8.47	9.55	9.41	(10.2%)
9th/[571,601)	11.42	11.37	11.12	10.20	10.13	9.46	9.13	9.02	8.47	9.67	(9.6%)
10th/[601,785]	12.13	10.92	11.80	11.85	9.34	10.32	9.26	8.92	7.76	7.71	(10.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

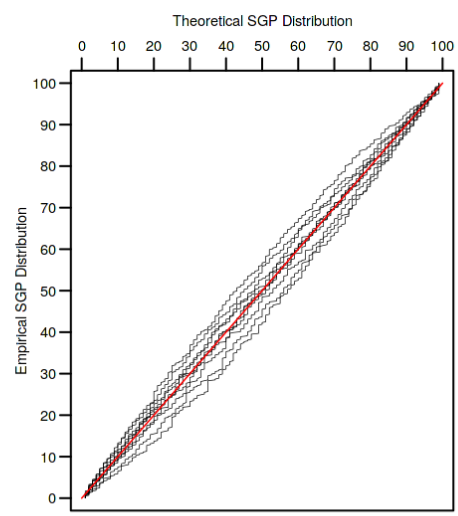
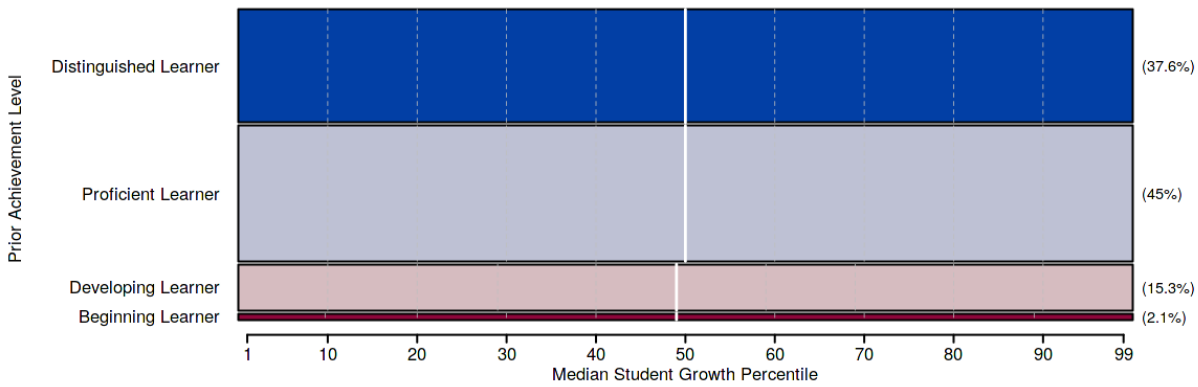


Fig. A.112: Goodness of Fit Plot for 2019 Geometry (Priors 2018 Algebra I, 2017 Math Grade 7 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP, Grade EOCT (N = 17,299)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[346,422)	91.3	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
	[422,431]	51.7	17.2	20.7	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
Highest OSS:	[815]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 190

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[366,507)	9.80	9.92	10.04	10.17	9.92	10.29	9.43	10.29	9.92	10.23	(9.4%)
2nd/[507,532)	9.75	9.58	10.79	9.53	10.95	9.58	10.13	9.26	10.02	10.41	(10.6%)
3rd/[532,547)	9.08	9.85	9.73	9.44	9.61	10.15	11.04	10.68	9.91	10.50	(9.7%)
4th/[547,562)	9.06	10.42	9.40	11.27	9.34	10.59	9.17	9.91	10.19	10.65	(10.2%)
5th/[562,576)	10.85	9.89	9.64	10.13	9.58	10.13	9.64	10.25	9.40	10.49	(9.6%)
6th/[576,590)	9.45	10.66	9.67	9.61	9.89	9.34	10.55	9.28	10.83	10.72	(10.5%)
7th/[590,608)	8.70	9.80	10.32	9.93	10.12	9.09	10.83	10.57	9.48	11.15	(9%)
8th/[608,627)	9.41	10.22	10.59	9.30	10.54	10.65	9.68	10.92	9.41	9.30	(10.7%)
9th/[627,665)	9.93	9.13	9.81	11.00	10.32	10.04	8.96	8.96	11.12	10.72	(10.2%)
10th/[665,785]	9.51	10.42	9.97	9.57	10.02	9.74	10.54	10.14	8.66	11.45	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

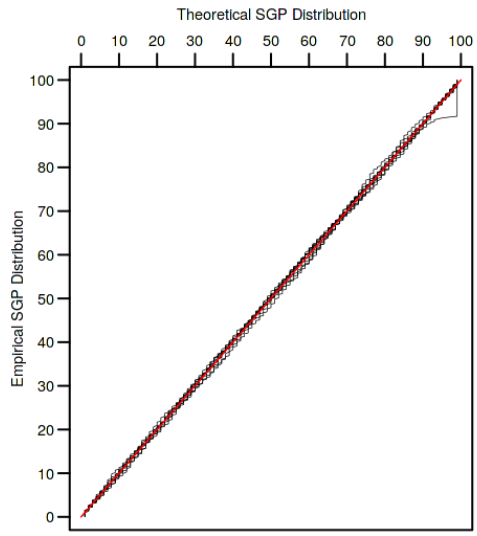
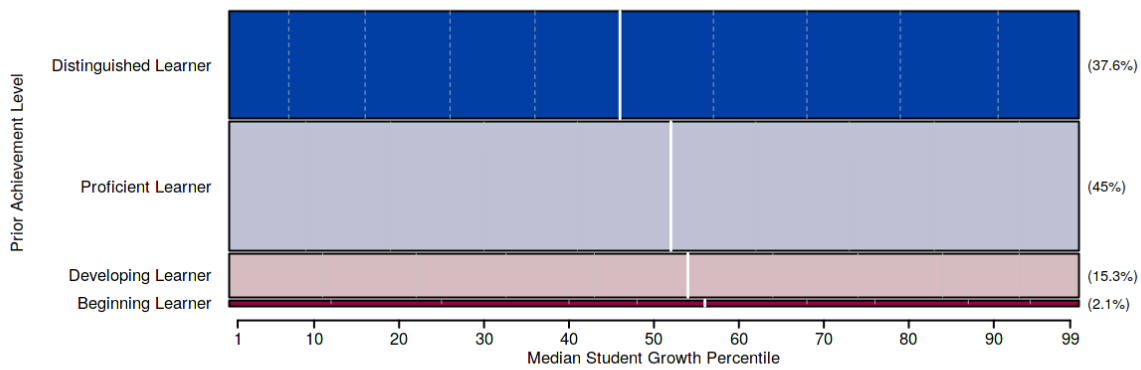


Fig. A.113: Goodness of Fit Plot for 2019 Geometry (Priors 2018 Algebra I, 2017 Math Grade 7 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP SIMEX, Grade EOCT (N = 17,299)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[346,422)	78.3	4.3	8.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	N = 23
	[422,431]	44.8	10.3	27.6	13.8	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
Highest OSS:	[815]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 190

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[366,507)	8.33	8.51	9.86	7.53	9.80	10.29	9.25	10.66	9.55	16.23	(9.4%)
2nd/[507,532)	9.58	8.49	9.53	10.19	8.11	10.41	8.49	10.73	10.24	14.24	(10.6%)
3rd/[532,547)	9.55	8.78	9.26	8.96	9.02	9.26	10.21	10.39	11.16	13.41	(9.7%)
4th/[547,562)	10.02	9.85	8.72	10.70	8.38	9.57	9.97	9.17	10.02	13.59	(10.2%)
5th/[562,576)	11.69	9.40	9.95	9.28	8.44	10.31	8.14	10.67	9.64	12.48	(9.6%)
6th/[576,590)	11.33	9.89	9.50	9.17	9.50	8.78	9.45	8.90	10.11	13.37	(10.5%)
7th/[590,608)	10.19	10.64	10.64	9.09	9.80	8.90	9.48	9.86	8.51	12.89	(9%)
8th/[608,627)	11.73	10.97	11.14	8.86	9.62	10.11	9.19	9.62	9.19	9.57	(10.7%)
9th/[627,665)	12.82	11.17	10.38	9.08	10.15	9.81	7.77	8.85	9.64	10.32	(10.2%)
10th/[665,785]	14.07	12.47	10.54	9.28	9.00	8.20	10.54	8.31	6.89	10.71	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

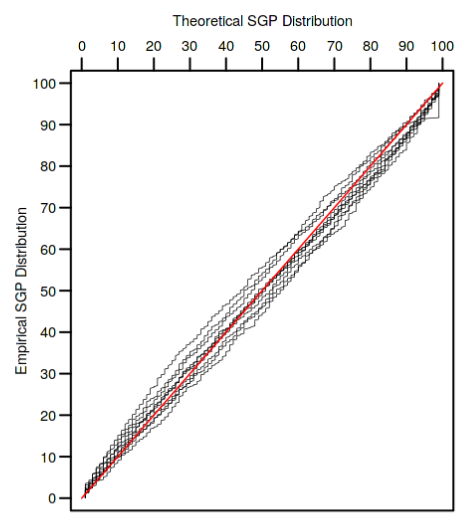
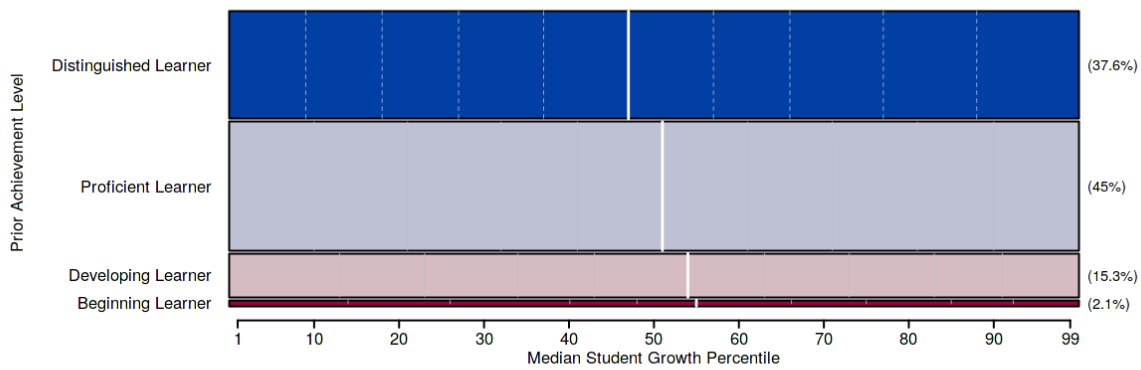


Fig. A.114: Goodness of Fit Plot for 2019 Geometry (Priors 2018 Algebra I, 2017 Math Grade 7 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP SIMEX Ranked, Grade EOCT (N = 17,299)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[346,422)	78.3	4.3	8.7	4.3	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	N = 23
	[422,431]	37.9	17.2	24.1	17.2	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
Highest OSS:	[815]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 190

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[366,507)	7.04	8.27	9.74	8.27	10.90	10.90	9.31	11.45	10.84	13.29	(9.4%)
2nd/[507,532)	8.27	8.76	9.42	10.79	8.76	10.90	9.53	10.73	10.79	12.05	(10.6%)
3rd/[532,547)	8.19	8.72	9.67	9.44	9.61	10.03	11.28	10.98	10.92	11.16	(9.7%)
4th/[547,562)	8.32	9.74	9.40	11.33	8.95	10.08	10.70	9.46	10.48	11.55	(10.2%)
5th/[562,576)	10.37	9.04	10.37	9.95	9.10	10.73	9.22	10.43	10.13	10.67	(9.6%)
6th/[576,590)	9.56	10.39	9.50	9.61	10.39	9.23	10.50	8.90	11.16	10.77	(10.5%)
7th/[590,608)	8.90	10.44	10.32	10.64	10.25	8.96	10.64	10.19	9.35	10.32	(9%)
8th/[608,627)	10.32	10.76	10.49	10.22	10.81	10.49	9.57	10.11	9.03	8.22	(10.7%)
9th/[627,665)	11.80	10.72	10.83	9.42	11.00	10.32	8.17	9.53	9.98	8.22	(10.2%)
10th/[665,785]	12.47	11.90	11.22	9.85	10.02	8.71	11.33	8.20	6.66	9.62	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

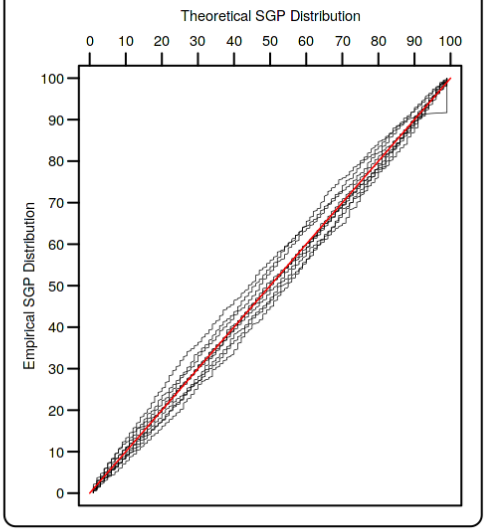
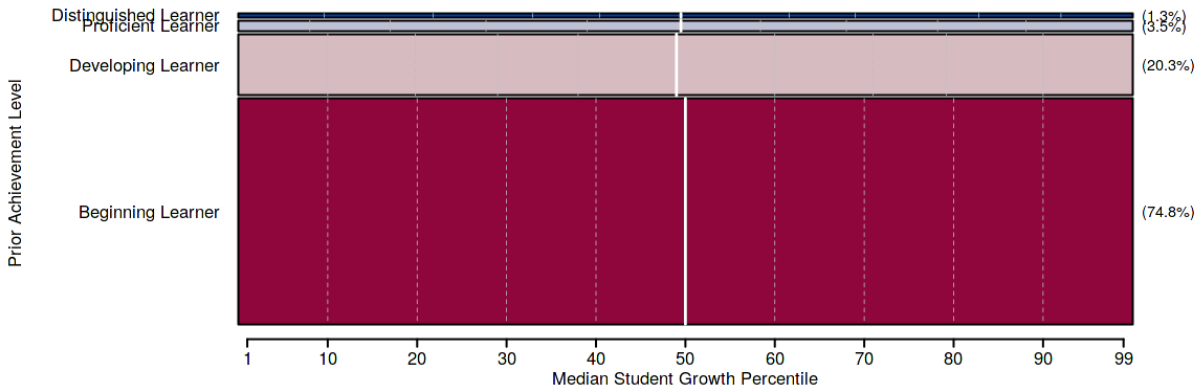


Fig. A.115: Goodness of Fit Plot for 2019 Geometry (Priors 2018 Geometry - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP, Grade EOCT (N = 4,796)

SGP Deciles by Prior Achievement Level (Geometry)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[180,366)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 19
	[366,379]	94.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 37
Highest OSS:	[650,682)	0.0	0.0	5.0	5.0	10.0	20.0	10.0	10.0	20.0	5.0	5.0	10.0	N = 20
	[682,815]	0.0	0.0	0.0	0.0	3.2	3.2	6.5	22.6	3.2	19.4	16.1	25.8	N = 31

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[238,414)	8.82	11.34	8.31	8.82	11.84	9.82	11.84	9.32	9.07	10.83	(8.3%)
2nd/[414,428)	10.71	10.16	11.80	10.89	7.44	10.34	8.17	10.34	10.34	9.80	(11.5%)
3rd/[428,439)	11.84	8.11	9.21	8.99	9.65	11.40	9.43	11.62	9.87	9.87	(9.5%)
4th/[439,446)	8.79	8.98	9.77	11.13	11.13	9.38	8.98	9.57	10.16	12.11	(10.7%)
5th/[446,453)	7.89	11.99	9.94	13.45	7.60	8.19	11.70	8.77	9.36	11.11	(7.1%)
6th/[453,462)	8.58	9.55	9.71	9.55	10.68	9.87	10.52	10.19	10.84	10.52	(12.9%)
7th/[462,470)	9.01	13.41	9.23	7.91	11.65	9.89	13.41	6.59	10.33	8.57	(9.5%)
8th/[470,480)	10.93	8.10	9.72	9.31	9.72	11.54	8.91	11.74	9.72	10.32	(10.3%)
9th/[480,502)	10.78	9.94	10.36	10.57	8.46	10.15	9.09	10.57	9.30	10.78	(9.9%)
10th/[502,755]	8.84	10.24	9.84	10.84	10.84	8.84	10.24	9.24	10.04	11.04	(10.4%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

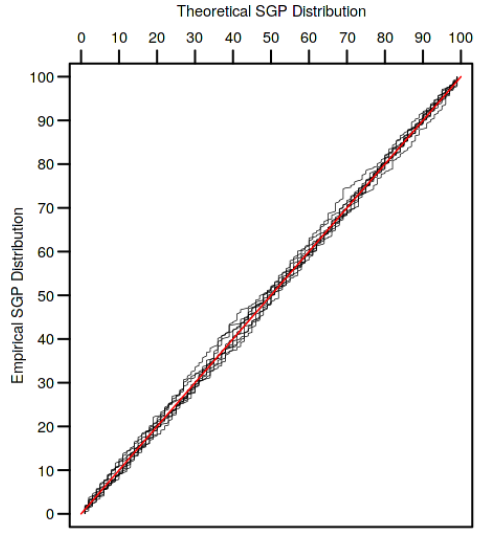
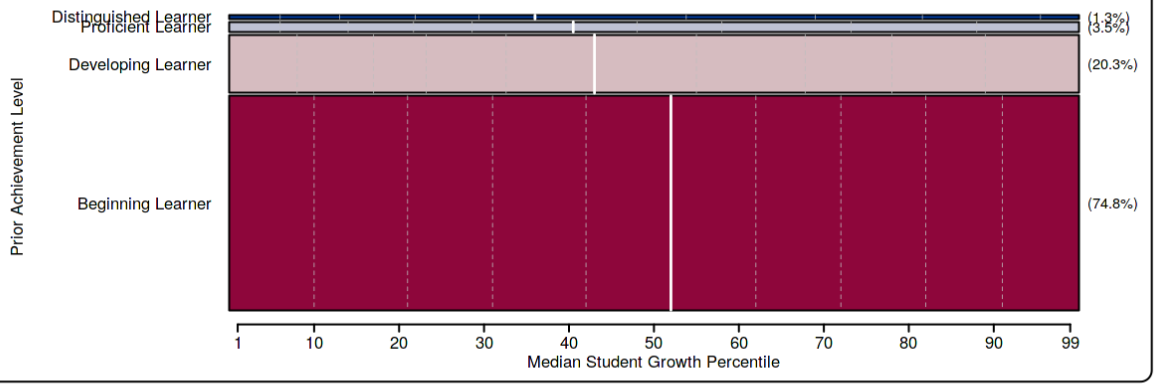


Fig. A.116: Goodness of Fit Plot for 2019 Geometry (Priors 2018 Geometry - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP SIMEX, Grade EOCT (N = 4,796)

SGP Deciles by Prior Achievement Level (Geometry)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[180,366)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 19
	[366,379]	91.9	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 37
Highest OSS:	[650,682)	0.0	0.0	10.0	15.0	25.0	0.0	5.0	15.0	10.0	10.0	0.0	10.0	N = 20
	[682,815]	0.0	0.0	0.0	3.2	6.5	0.0	16.1	12.9	3.2	16.1	9.7	32.3	N = 31

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[238,414)	7.05	7.56	10.58	8.06	7.56	10.08	11.34	14.11	10.08	13.60	(8.3%)
2nd/[414,428)	9.07	7.99	11.07	10.16	9.07	7.99	10.89	9.62	11.07	13.07	(11.5%)
3rd/[428,439)	9.87	8.77	8.11	8.11	9.87	9.65	7.89	12.28	13.38	12.06	(9.5%)
4th/[439,446)	8.59	9.57	8.40	11.13	9.77	7.23	10.16	9.38	10.16	15.62	(10.7%)
5th/[446,453)	8.48	11.40	9.06	12.28	8.77	7.89	9.65	9.06	11.40	11.99	(7.1%)
6th/[453,462)	9.22	9.22	12.14	7.44	8.41	11.65	10.68	9.22	9.55	12.46	(12.9%)
7th/[462,470)	10.99	13.41	8.35	10.77	8.57	10.55	11.43	7.69	9.45	8.79	(9.5%)
8th/[470,480)	12.96	8.70	12.35	8.50	8.50	10.53	8.70	11.94	7.29	10.53	(10.3%)
9th/[480,502)	14.38	10.15	13.11	10.15	7.19	8.88	9.94	6.98	10.36	8.88	(9.9%)
10th/[502,755]	13.05	11.85	14.26	9.84	9.64	8.03	8.84	6.22	7.83	10.44	(10.4%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

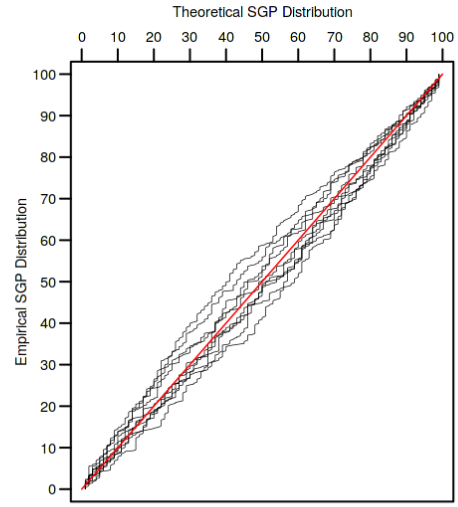
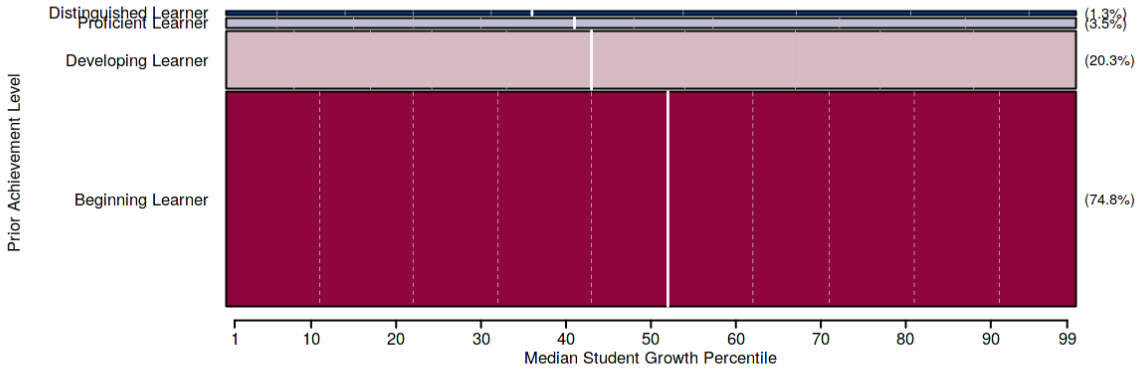


Fig. A.117: Goodness of Fit Plot for 2019 Geometry (Priors 2018 Geometry - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP SIMEX Ranked, Grade EOCT (N = 4,796)

SGP Deciles by Prior Achievement Level (Geometry)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[180,366)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 19
	[366,379]	89.2	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 37
Highest OSS:	[650,682)	0.0	0.0	10.0	10.0	25.0	5.0	5.0	15.0	10.0	10.0	0.0	10.0	N = 20
	[682,815]	0.0	0.0	0.0	0.0	6.5	3.2	16.1	16.1	3.2	12.9	9.7	32.3	N = 31

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[238,414)	6.30	8.06	8.82	8.56	9.07	11.34	11.59	14.61	9.82	11.84	(8.3%)
2nd/[414,428)	7.80	9.26	8.53	11.62	10.71	7.44	11.43	11.07	10.89	11.25	(11.5%)
3rd/[428,439)	8.99	9.21	7.89	7.24	11.40	10.31	9.65	12.50	11.40	11.40	(9.5%)
4th/[439,446)	7.42	9.38	9.57	10.35	10.74	8.20	10.74	8.20	11.91	13.48	(10.7%)
5th/[446,453)	7.89	11.70	7.89	13.45	9.06	7.89	9.65	10.23	12.57	9.65	(7.1%)
6th/[453,462)	8.90	8.09	10.84	9.71	9.22	12.94	10.03	8.41	10.52	11.33	(12.9%)
7th/[462,470)	9.89	12.53	10.11	8.13	11.87	10.11	12.09	7.91	9.01	8.35	(9.5%)
8th/[470,480)	12.55	8.50	11.54	8.91	9.51	11.13	8.10	12.35	7.69	9.72	(10.3%)
9th/[480,502)	13.32	10.36	11.42	11.21	8.67	9.94	8.88	8.25	10.15	7.82	(9.9%)
10th/[502,755]	12.05	12.25	12.65	11.04	10.64	9.84	8.03	7.23	6.83	9.44	(10.4%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

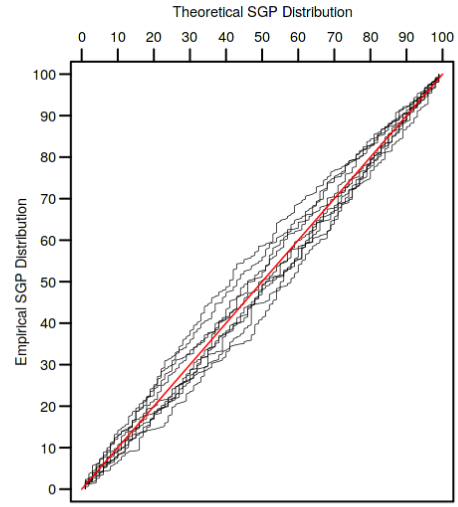
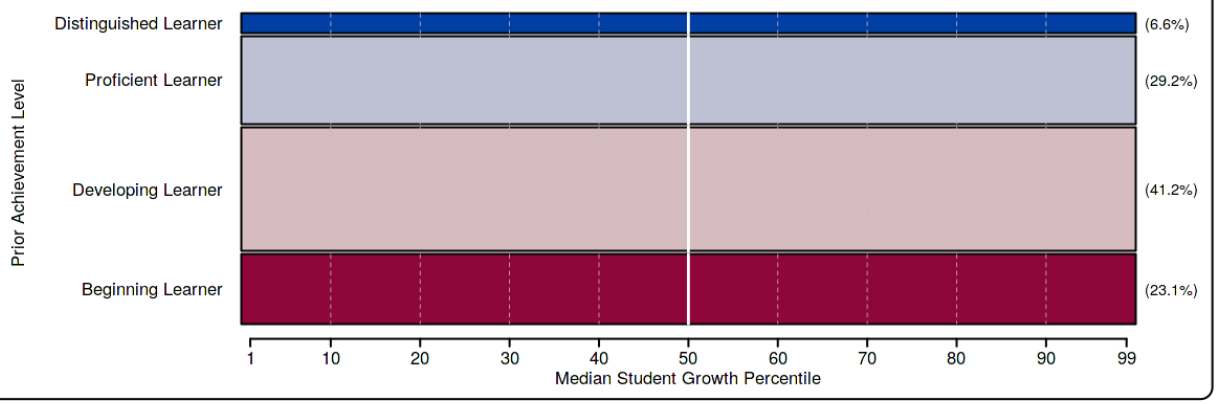


Fig. A.118: Goodness of Fit Plot for 2019 Geometry (Priors 2018 Algebra I, 2017 Math Grade 8 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP, Grade EOCT (N = 62,282)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[180,355)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[355,366]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 40
Highest OSS:	[764,815)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	13.0	78.3	N = 23
	[815]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 34

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[257,453)	9.56	9.72	9.87	10.31	10.25	10.18	9.80	9.74	9.99	10.58	(9.8%)
2nd/[453,468)	9.44	10.36	10.19	9.47	9.66	9.87	10.35	10.05	10.33	10.28	(9.4%)
3rd/[468,482)	9.62	9.93	9.80	10.04	9.99	9.95	10.05	10.07	9.72	10.82	(10.7%)
4th/[482,494)	9.40	10.25	10.21	9.95	9.73	10.11	9.85	10.25	9.94	10.32	(9.3%)
5th/[494,507)	9.68	9.60	9.89	10.28	10.31	9.98	9.95	9.50	10.34	10.46	(10.7%)
6th/[507,519)	9.06	10.10	10.24	9.77	10.33	9.97	10.08	10.46	9.64	10.35	(8.8%)
7th/[519,533)	9.83	9.87	9.86	10.11	9.53	10.13	9.90	10.25	10.08	10.44	(10.7%)
8th/[533,552)	9.18	10.29	9.99	9.96	10.03	10.00	10.17	9.52	10.18	10.67	(10.6%)
9th/[552,580)	10.04	10.15	10.14	10.18	9.86	9.68	9.89	9.88	9.70	10.48	(9.9%)
10th/[580,785]	9.24	9.80	9.93	9.85	10.27	10.15	10.02	10.26	10.10	10.37	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

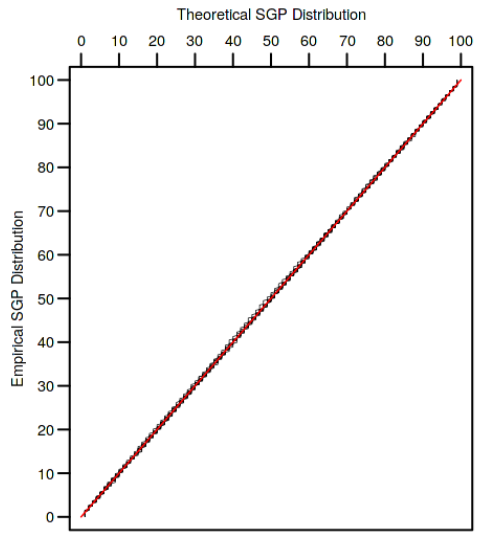
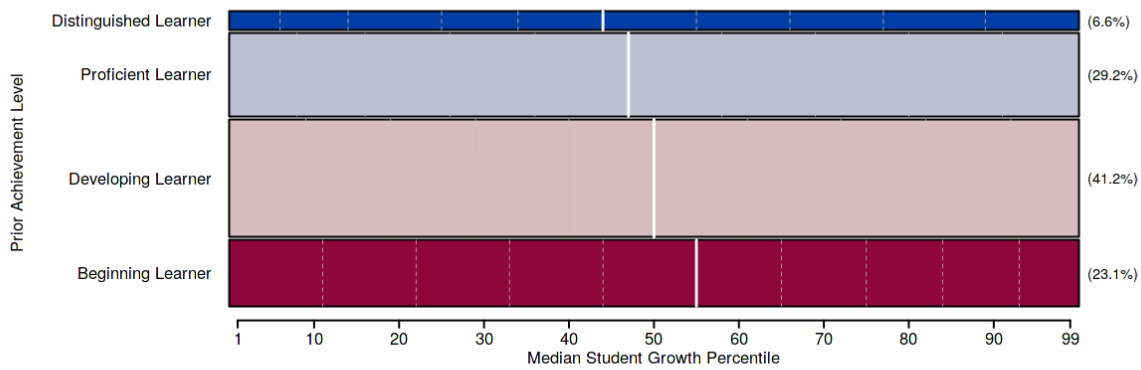


Fig. A.119: Goodness of Fit Plot for 2019 Geometry (Priors 2018 Algebra I, 2017 Math Grade 8 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP SIMEX, Grade EOCT (N = 62,282)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[180,355)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[355,366]	97.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 40
Highest OSS:	[764,815)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	13.0	13.0	69.6	N = 23
	[815]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 34

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[257,453)	8.13	8.88	7.73	8.90	8.67	10.64	10.41	10.08	11.81	14.74	(9.8%)
2nd/[453,468)	9.08	9.11	9.13	9.37	9.05	9.68	9.27	10.52	11.51	13.29	(9.4%)
3rd/[468,482)	10.07	9.42	8.91	9.62	9.98	8.84	9.17	10.02	10.64	13.33	(10.7%)
4th/[482,494)	10.32	9.75	10.16	9.36	8.67	9.54	9.68	9.64	10.87	12.01	(9.3%)
5th/[494,507)	10.79	9.47	9.98	8.97	9.95	9.53	9.56	8.97	10.79	11.98	(10.7%)
6th/[507,519)	10.66	9.84	10.01	9.88	9.73	8.86	9.66	10.46	9.15	11.76	(8.8%)
7th/[519,533)	11.72	9.96	10.04	9.26	9.33	9.39	9.53	9.66	9.74	11.37	(10.7%)
8th/[533,552)	12.06	11.03	9.59	9.37	10.08	8.56	9.58	8.87	9.43	11.43	(10.6%)
9th/[552,580)	13.33	11.01	10.61	9.80	9.50	8.50	8.87	8.92	8.66	10.80	(9.9%)
10th/[580,785]	13.61	10.89	10.57	9.62	9.68	8.99	8.59	9.22	9.07	9.77	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

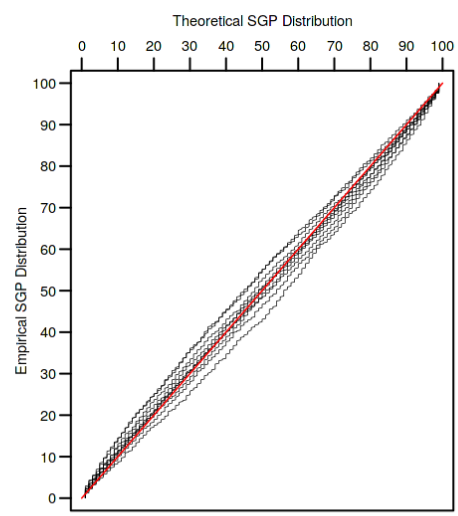
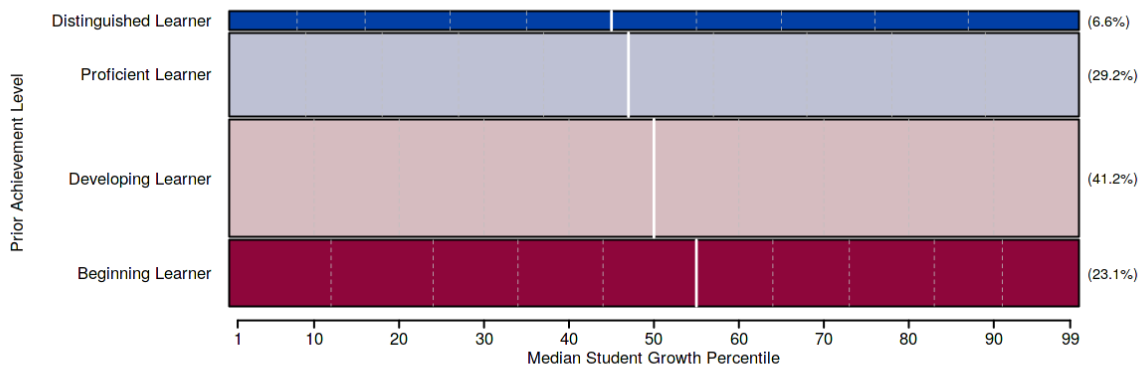


Fig. A.120: Goodness of Fit Plot for 2019 Geometry (Priors 2018 Algebra I, 2017 Math Grade 8 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP SIMEX Ranked, Grade EOCT (N = 62,282)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[180,355)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[355,366]	97.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 40
Highest OSS:	[764,815)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	8.7	13.0	69.6	N = 23
	[815]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 34

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[257,453)	7.12	8.60	7.86	9.82	8.90	11.24	11.22	10.33	12.01	12.90	(9.8%)
2nd/[453,468)	7.81	9.42	8.91	10.12	9.47	10.41	9.99	10.98	10.98	11.90	(9.4%)
3rd/[468,482)	8.72	9.48	9.30	9.87	10.62	9.57	9.89	10.17	10.65	11.70	(10.7%)
4th/[482,494)	8.83	9.78	10.39	10.04	9.23	10.46	10.09	10.13	10.46	10.61	(9.3%)
5th/[494,507)	9.42	9.35	10.18	9.65	10.57	10.24	10.27	9.41	10.45	10.48	(10.7%)
6th/[507,519)	8.84	10.61	10.04	10.22	10.41	9.71	10.22	10.57	9.28	10.10	(8.8%)
7th/[519,533)	10.16	9.98	10.71	9.35	10.11	9.99	9.99	10.13	9.57	10.01	(10.7%)
8th/[533,552)	9.78	11.62	10.12	9.94	10.67	9.18	10.05	9.65	9.15	9.82	(10.6%)
9th/[552,580)	11.53	11.26	11.03	10.18	10.25	9.20	9.76	8.89	8.79	9.11	(9.9%)
10th/[580,785]	11.94	10.98	10.97	10.16	10.31	10.05	8.99	9.27	8.97	8.36	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

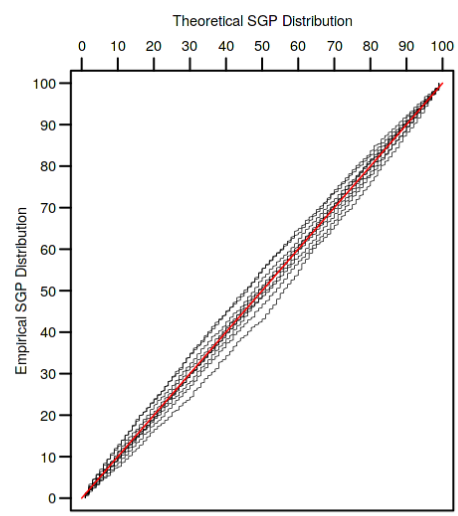
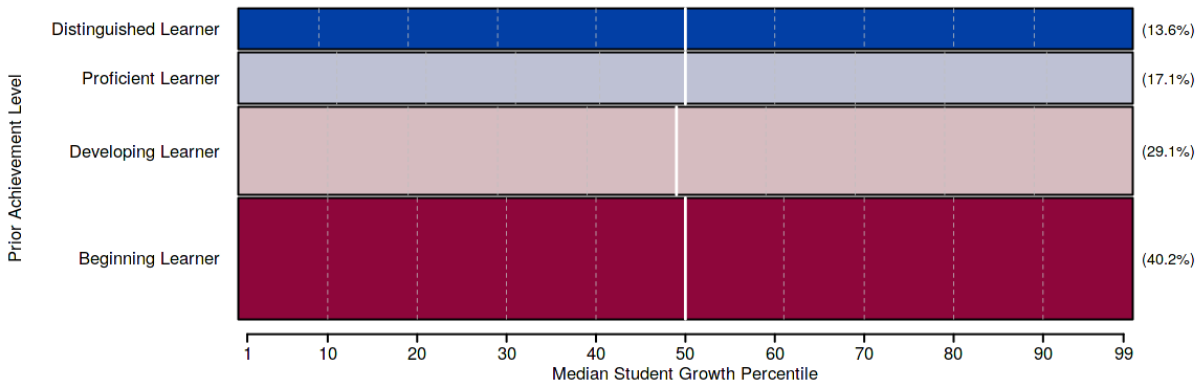


Fig. A.121: Goodness of Fit Plot for 2019 Geometry (Priors 2019 Algebra I - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP, Grade EOCT (N = 3,251)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[346,385)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 18
	[385,393]	88.6	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 35
Highest OSS:	[707,748)	0.0	0.0	0.0	0.0	8.0	0.0	8.0	0.0	8.0	24.0	32.0	20.0	N = 25
	[748,815]	0.0	0.0	0.0	0.0	0.0	7.7	0.0	7.7	3.8	11.5	15.4	53.8	N = 26

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[329,432)	10.62	9.93	10.62	8.90	9.25	10.96	10.27	9.59	9.93	9.93	(9%)
2nd/[432,449)	7.69	10.54	10.26	11.97	10.83	10.54	8.26	10.26	8.55	11.11	(10.8%)
3rd/[449,462)	11.60	8.46	9.72	8.15	9.40	8.46	11.60	10.66	13.79	8.15	(9.8%)
4th/[462,472)	8.95	10.51	10.51	8.56	11.67	7.78	11.67	9.73	8.56	12.06	(7.9%)
5th/[472,486)	10.53	9.52	10.78	10.03	9.02	12.53	7.77	9.27	9.27	11.28	(12.3%)
6th/[486,502)	7.19	11.11	8.50	12.09	11.11	9.15	12.09	10.13	9.80	8.82	(9.4%)
7th/[502,528)	11.43	11.14	10.57	8.86	8.86	10.00	8.57	9.71	10.86	10.00	(10.8%)
8th/[528,569)	9.21	8.89	9.21	10.79	10.48	10.79	10.16	10.48	8.25	11.75	(9.7%)
9th/[569,614)	8.33	10.42	11.31	9.82	8.93	9.82	10.42	10.42	10.42	10.12	(10.3%)
10th/[614,785]	10.74	9.82	8.90	10.12	11.04	9.51	10.12	9.51	9.82	10.43	(10%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

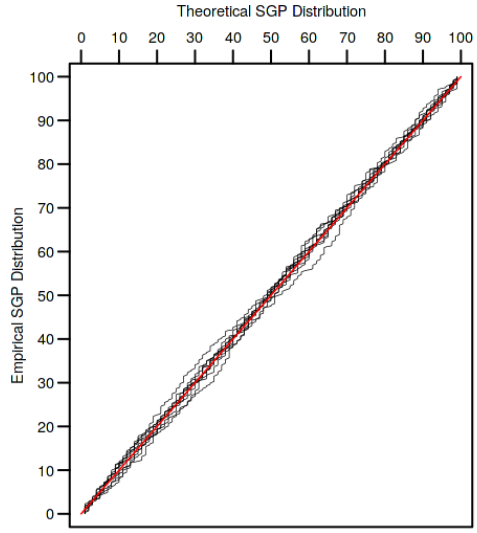
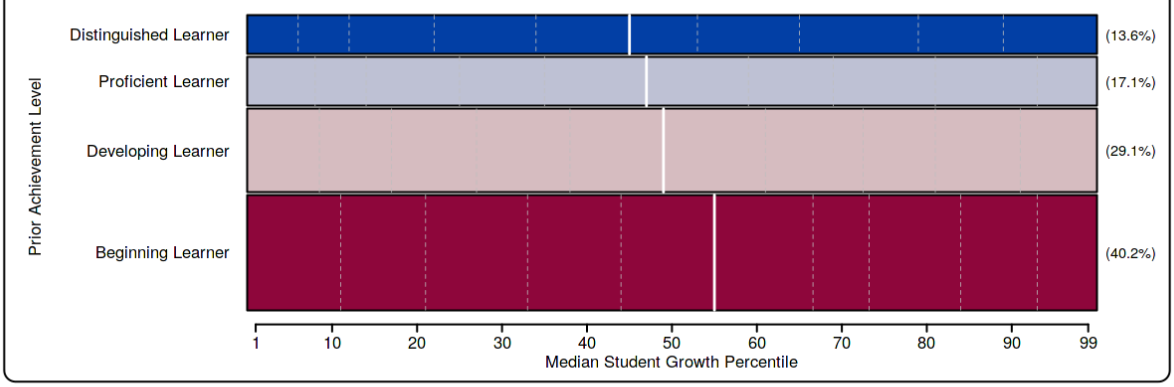


Fig. A.122: Goodness of Fit Plot for 2019 Geometry (Priors 2019 Algebra I - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP SIMEX, Grade EOCT (N = 3,251)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[346,385)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 18
	[385,393]	77.1	22.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 35
Highest OSS:	[707,748)	0.0	0.0	0.0	4.0	4.0	8.0	4.0	0.0	8.0	24.0	28.0	20.0	N = 25
	[748,815]	0.0	0.0	0.0	0.0	0.0	19.2	0.0	0.0	0.0	19.2	11.5	50.0	N = 26

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[329,432)	8.90	9.59	5.48	10.27	10.96	6.16	10.27	13.01	11.30	14.04	(9%)
2nd/[432,449)	7.12	7.12	10.26	11.68	8.55	9.97	11.68	8.55	11.97	13.11	(10.8%)
3rd/[449,462)	10.66	9.72	6.27	9.40	9.09	8.78	7.21	13.17	13.48	12.23	(9.8%)
4th/[462,472)	10.89	8.95	10.12	8.95	9.34	8.56	8.95	11.28	7.78	15.18	(7.9%)
5th/[472,486)	11.78	9.77	8.77	9.52	10.53	9.52	8.52	9.02	9.02	13.53	(12.3%)
6th/[486,502)	8.82	13.07	11.11	8.82	8.82	6.54	11.11	11.44	9.80	10.46	(9.4%)
7th/[502,528)	13.14	16.00	7.43	8.86	6.57	6.57	10.29	6.57	13.14	11.43	(10.8%)
8th/[528,569)	12.70	11.43	8.89	9.52	8.25	9.52	8.57	8.89	8.89	13.33	(9.7%)
9th/[569,614)	13.69	12.80	12.80	3.87	10.12	6.55	11.01	8.04	10.12	11.01	(10.3%)
10th/[614,785]	16.26	9.82	8.90	9.20	10.74	10.12	8.90	9.51	7.06	9.51	(10%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

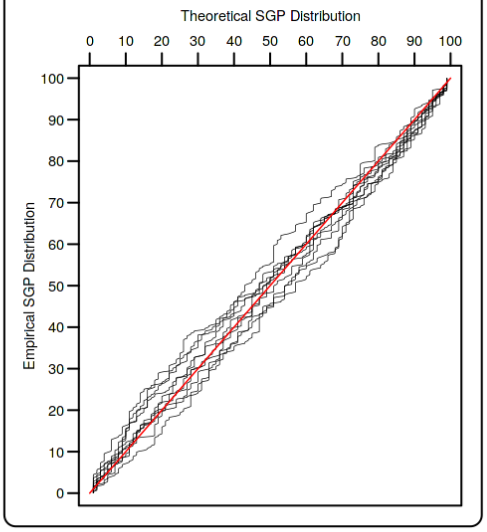
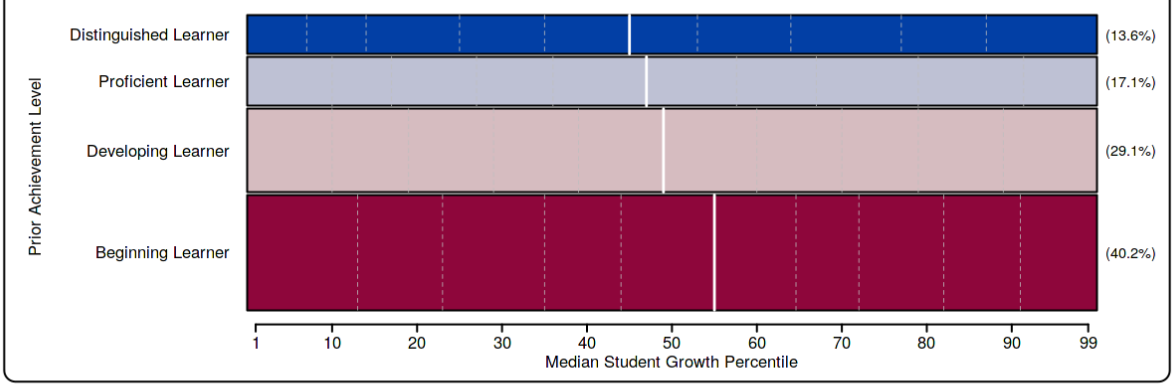


Fig. A.123: Goodness of Fit Plot for 2019 Geometry (Priors 2019 Algebra I - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Geometry SGP SIMEX Ranked, Grade EOCT (N = 3,251)

SGP Deciles by Prior Achievement Level (Algebra I)



Ceiling / Floor Effects Test

Student Growth Percentile Range

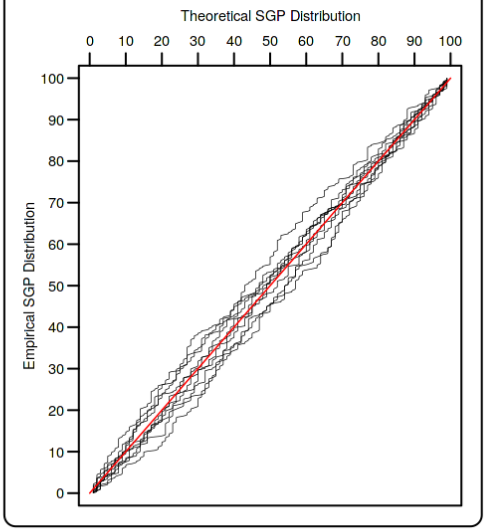
Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[346,385)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 18
	[385,393]	54.3	45.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 35
Highest OSS:	[707,748)	0.0	0.0	0.0	4.0	4.0	8.0	4.0	0.0	8.0	48.0	8.0	16.0	N = 25
	[748,815]	0.0	0.0	0.0	0.0	0.0	19.2	0.0	0.0	0.0	19.2	15.4	46.2	N = 26

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[329,432)	7.53	6.16	9.93	10.62	10.96	8.56	11.30	10.62	10.62	13.70	(9%)
2nd/[432,449)	6.27	5.13	9.40	14.25	8.55	12.54	12.25	9.69	9.97	11.97	(10.8%)
3rd/[449,462)	9.40	7.84	8.78	9.40	9.72	9.72	10.34	12.54	11.91	10.34	(9.8%)
4th/[462,472)	7.78	9.34	9.73	10.51	10.89	9.73	10.51	11.28	8.17	12.06	(7.9%)
5th/[472,486)	9.77	9.02	9.77	10.53	11.28	11.53	7.77	10.03	9.52	10.78	(12.3%)
6th/[486,502)	7.52	10.13	12.42	10.13	10.46	7.19	11.44	12.09	10.46	8.17	(9.4%)
7th/[502,528)	12.00	13.14	9.43	9.43	8.00	7.71	9.71	8.86	12.29	9.43	(10.8%)
8th/[528,569)	10.16	12.70	7.62	11.43	8.57	11.43	8.57	8.89	8.57	12.06	(9.7%)
9th/[569,614)	10.12	16.07	11.90	4.46	10.71	8.93	10.12	8.33	9.82	9.52	(10.3%)
10th/[614,785]	14.11	9.51	10.43	10.12	10.74	12.88	7.98	8.28	8.90	7.06	(10%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles



3.5 Coordinate Algebra

Fig. A.124: Goodness of Fit Plot for 2019 Coordinate Algebra (Priors 2018 Math Grade 7 - Uncorrected).

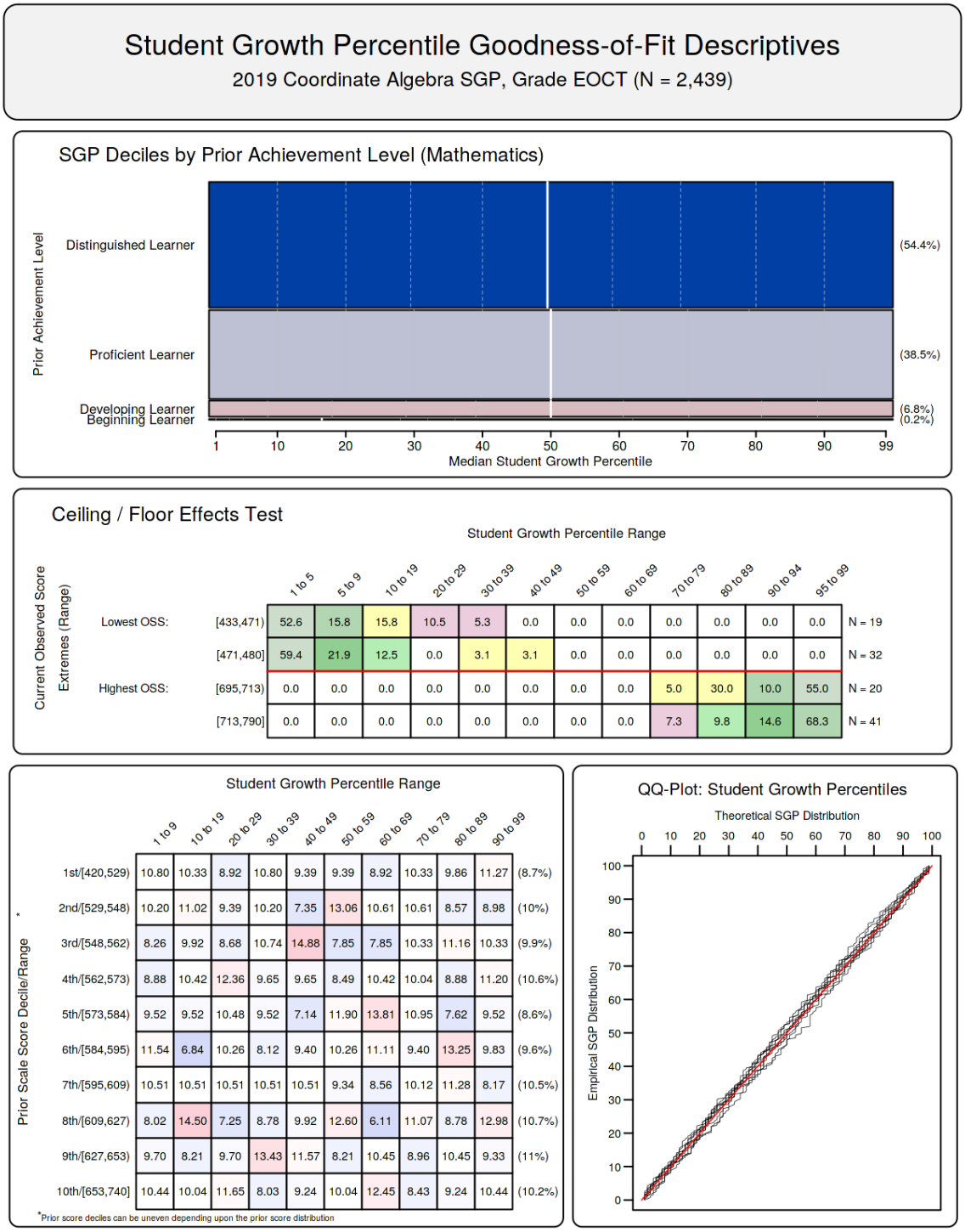
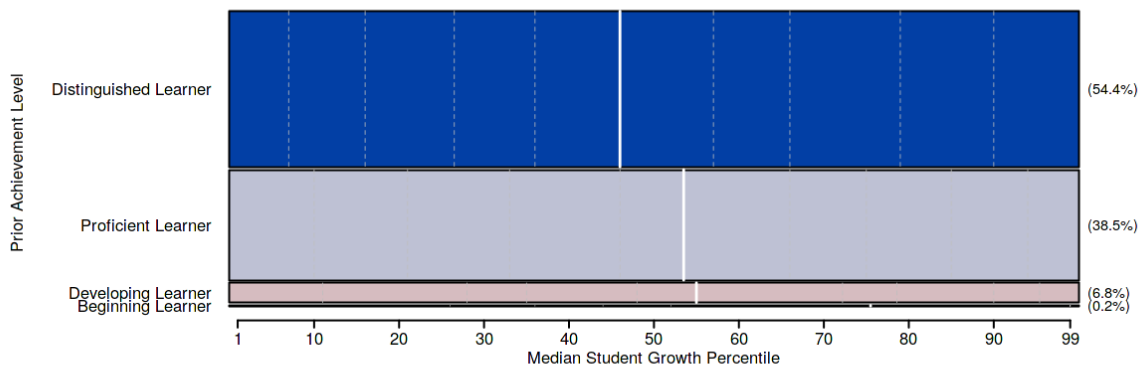


Fig. A.125: Goodness of Fit Plot for 2019 Coordinate Algebra (Priors 2018 Math Grade 7 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Coordinate Algebra SGP SIMEX, Grade EOCT (N = 2,439)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[433,471)	31.6	5.3	21.1	15.8	10.5	0.0	5.3	0.0	0.0	0.0	0.0	10.5	N = 19
	[471,480]	56.2	9.4	25.0	3.1	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	N = 32
Highest OSS:	[695,713)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	25.0	5.0	15.0	50.0	N = 20
	[713,790]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	9.8	29.3	53.7	N = 41

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[420,529)	5.63	9.86	5.63	12.21	6.57	13.15	2.35	13.62	8.45	22.54	(8.7%)
2nd/[529,548)	9.80	8.57	8.16	9.80	8.57	7.76	10.20	12.65	8.57	15.92	(10%)
3rd/[548,562)	7.85	9.50	7.02	7.85	13.64	10.74	7.44	9.92	7.02	19.01	(9.9%)
4th/[562,573)	8.88	10.04	11.58	8.88	8.11	10.04	7.72	10.81	9.27	14.67	(10.6%)
5th/[573,584)	10.48	9.05	11.43	6.67	7.14	12.86	10.00	11.90	8.10	12.38	(8.6%)
6th/[584,595)	12.39	7.26	10.26	9.40	8.12	8.55	11.54	7.69	11.54	13.25	(9.6%)
7th/[595,609)	13.23	8.56	12.84	8.17	11.28	9.34	7.39	9.34	11.28	8.56	(10.5%)
8th/[609,627)	14.50	10.69	6.11	11.83	8.02	10.31	7.63	10.69	7.25	12.98	(10.7%)
9th/[627,653)	12.31	10.82	7.46	14.18	12.31	7.09	11.57	6.34	10.07	7.84	(11%)
10th/[653,740]	12.45	12.85	13.65	7.63	9.64	9.24	10.44	8.43	5.22	10.44	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

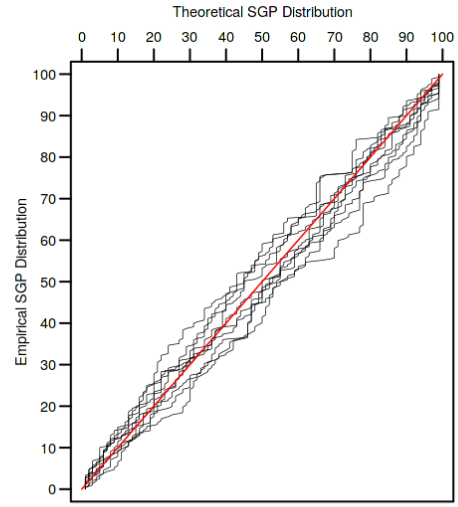
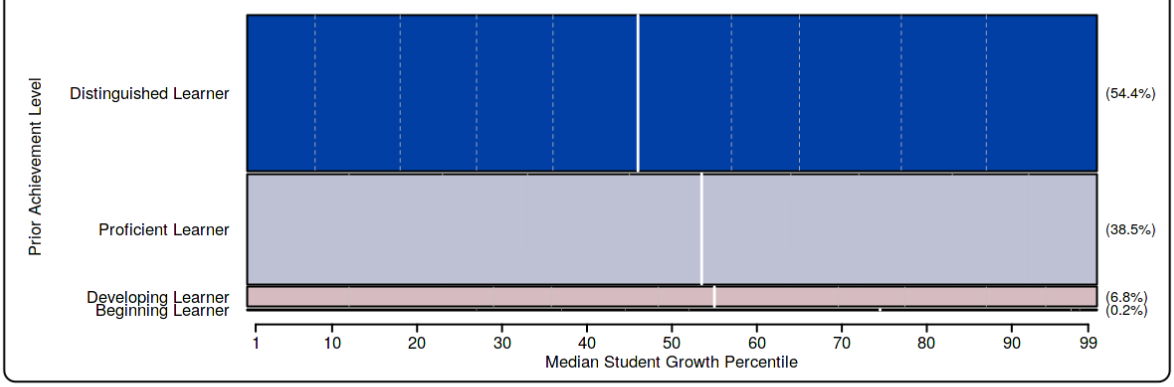


Fig. A.126: Goodness of Fit Plot for 2019 Coordinate Algebra (Priors 2018 Math Grade 7 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Coordinate Algebra SGP SIMEX Ranked, Grade EOCT (N = 2,439)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[433,471)	31.6	5.3	21.1	10.5	15.8	0.0	5.3	0.0	0.0	0.0	0.0	10.5	N = 19
	[471,480]	53.1	6.2	31.2	3.1	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	N = 32
Highest OSS:	[695,713)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	25.0	15.0	5.0	50.0	N = 20
	[713,790]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	22.0	19.5	51.2	N = 41

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[420,529)	4.69	10.80	5.16	12.68	6.57	13.15	7.04	10.33	12.21	17.37	(8.7%)
2nd/[529,548)	7.35	8.57	9.80	10.61	8.57	8.98	10.20	11.84	12.24	11.84	(10%)
3rd/[548,562)	6.61	7.44	10.33	7.85	13.64	10.74	9.50	8.26	10.74	14.88	(9.9%)
4th/[562,573)	8.11	10.42	11.20	8.88	8.88	10.04	11.20	10.04	8.11	13.13	(10.6%)
5th/[573,584)	9.52	9.05	10.95	7.14	9.52	11.43	14.76	10.95	6.67	10.00	(8.6%)
6th/[584,595)	11.54	7.26	11.11	8.97	8.55	9.40	11.11	10.68	11.54	9.83	(9.6%)
7th/[595,609)	11.28	9.73	12.06	9.73	11.28	9.34	7.78	10.89	9.73	8.17	(10.5%)
8th/[609,627)	11.07	12.60	7.63	11.83	8.02	11.07	8.78	10.69	9.92	8.40	(10.7%)
9th/[627,653)	11.19	11.19	8.21	14.18	13.43	7.09	10.45	7.46	10.45	6.34	(11%)
10th/[653,740]	12.05	13.25	13.25	8.03	9.64	9.24	10.44	8.43	8.84	6.83	(10.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

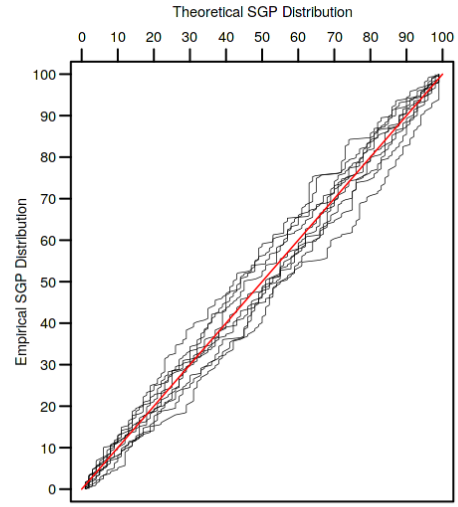
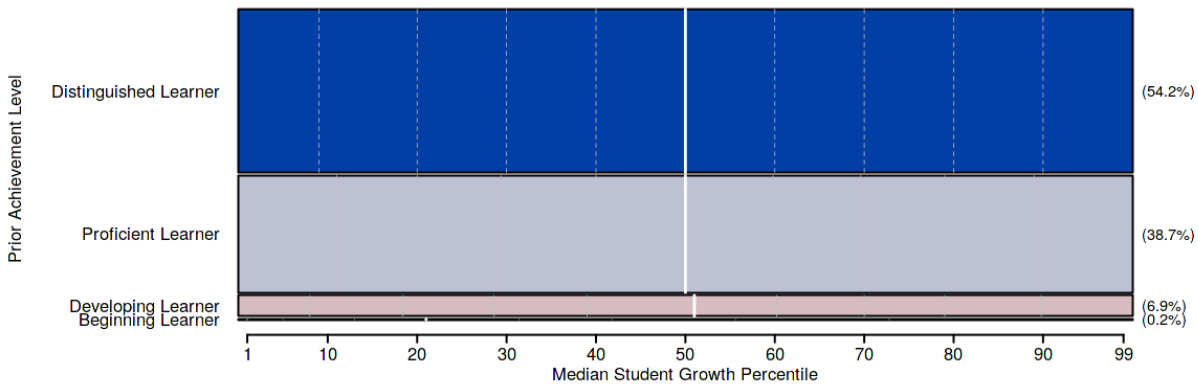


Fig. A.127: Goodness of Fit Plot for 2019 Coordinate Algebra (Priors 2018 Math Grade 7, 2017 Math Grade 6 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Coordinate Algebra SGP, Grade EOCT (N = 2,373)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[442,474)	75.0	4.2	8.3	8.3	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[474,483]	50.0	16.7	23.3	3.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[695,724)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	10.7	17.9	46.4	N = 28
	[724,790]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	21.4	67.9	N = 28

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[444,529)	11.65	9.22	8.74	10.19	9.71	10.19	9.22	9.22	10.19	11.65	(8.7%)
2nd/[529,548)	12.13	8.79	8.79	11.30	10.46	10.46	9.62	9.21	10.46	8.79	(10.1%)
3rd/[548,562)	7.11	11.30	11.72	9.21	10.88	10.46	9.21	9.21	10.88	10.04	(10.1%)
4th/[562,573)	7.51	12.65	11.07	8.70	9.88	9.88	10.28	12.65	7.91	9.49	(10.7%)
5th/[573,584)	10.73	7.32	11.71	9.27	9.76	9.76	11.71	10.73	8.78	10.24	(8.6%)
6th/[584,595)	10.09	9.21	8.77	10.09	9.65	9.65	9.65	11.84	11.40	9.65	(9.6%)
7th/[595,609)	12.05	10.44	7.23	10.84	7.63	10.44	10.84	8.43	11.65	10.44	(10.5%)
8th/[609,627)	9.06	12.20	9.45	11.02	10.63	8.27	8.66	9.45	9.45	11.81	(10.7%)
9th/[627,653)	9.20	8.05	11.88	10.73	13.03	12.26	7.66	7.28	9.58	10.34	(11%)
10th/[653,740]	10.04	10.04	9.62	8.37	8.37	9.21	11.72	13.81	9.21	9.62	(10.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

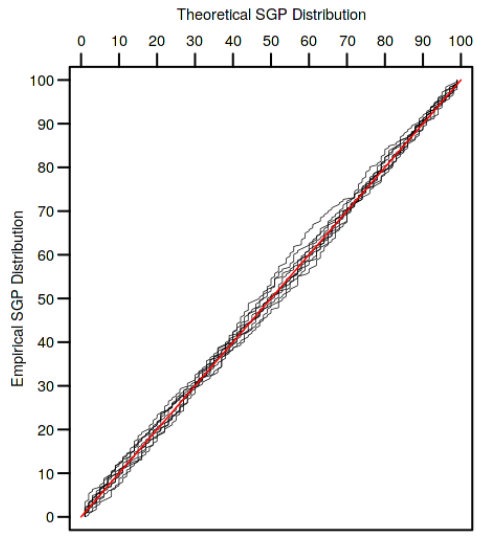
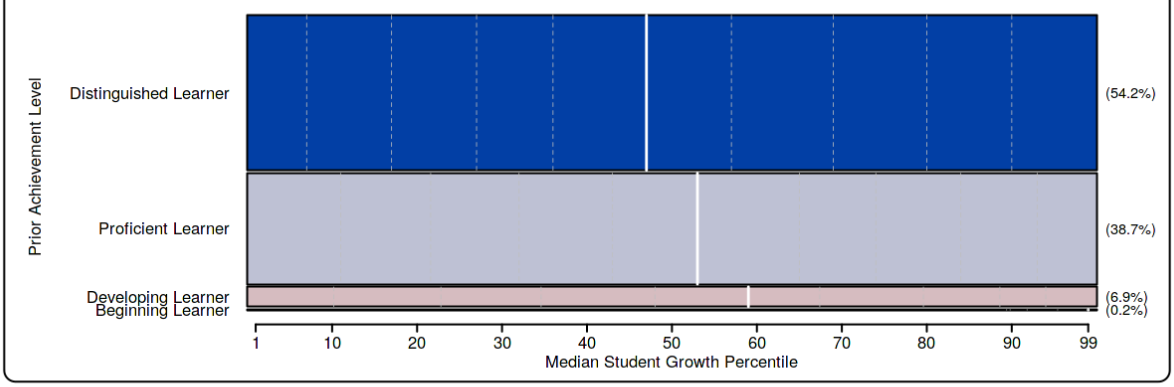


Fig. A.128: Goodness of Fit Plot for 2019 Coordinate Algebra (Priors 2018 Math Grade 7, 2017 Math Grade 6 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Coordinate Algebra SGP SIMEX, Grade EOCT (N = 2,373)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[442,474)	45.8	12.5	8.3	4.2	8.3	0.0	0.0	0.0	0.0	4.2	8.3	8.3	N = 24
	[474,483]	46.7	16.7	13.3	16.7	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[695,724)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	14.3	14.3	46.4	N = 28
	[724,790]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4	14.3	64.3	N = 28

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[444,529)	8.25	7.28	10.19	9.71	4.85	11.17	9.22	6.80	14.08	18.45	(8.7%)
2nd/[529,548)	10.46	9.21	7.11	9.21	10.46	8.79	11.72	9.21	10.88	12.97	(10.1%)
3rd/[548,562)	7.53	8.37	10.46	10.88	7.95	7.95	12.55	9.21	8.79	16.32	(10.1%)
4th/[562,573)	8.70	10.28	11.46	9.49	9.88	8.30	8.70	11.86	7.51	13.83	(10.7%)
5th/[573,584)	10.73	7.80	11.22	8.78	10.24	7.80	9.76	10.73	9.76	13.17	(8.6%)
6th/[584,595)	10.53	9.65	9.21	8.33	10.96	8.77	8.77	11.40	9.21	13.16	(9.6%)
7th/[595,609)	13.25	10.04	8.84	9.24	7.63	10.44	10.04	8.84	10.04	11.65	(10.5%)
8th/[609,627)	11.81	13.39	9.45	7.09	12.60	9.06	8.27	7.09	9.84	11.42	(10.7%)
9th/[627,653)	11.49	10.73	12.26	13.41	10.34	9.96	4.98	6.90	10.34	9.58	(11%)
10th/[653,740]	12.97	10.04	14.23	9.21	5.02	11.30	9.62	9.62	10.04	7.95	(10.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

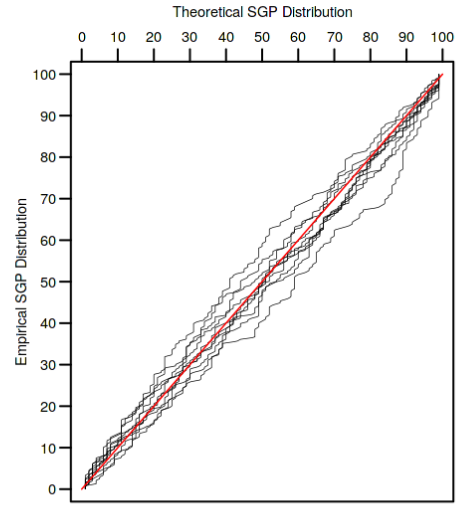
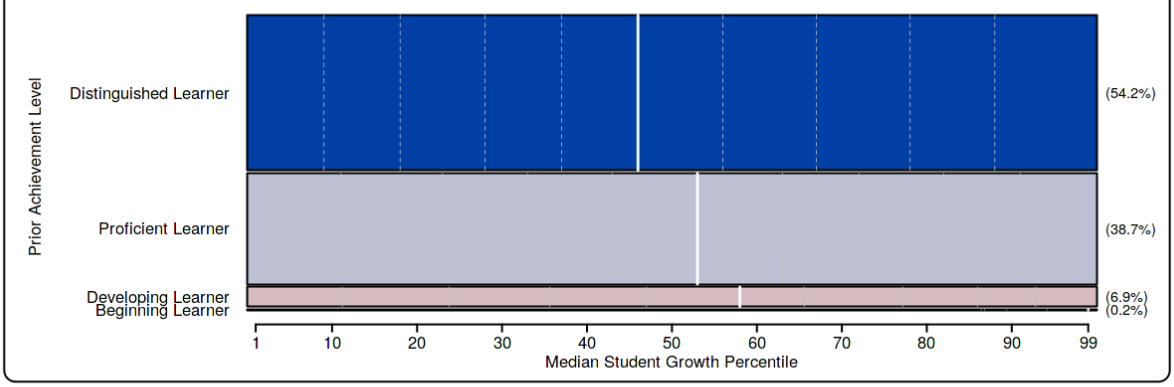


Fig. A.129: Goodness of Fit Plot for 2019 Coordinate Algebra (Priors 2018 Math Grade 7, 2017 Math Grade 6 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Coordinate Algebra SGP SIMEX Ranked, Grade EOCT (N = 2,373)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[442,474)	45.8	8.3	12.5	4.2	8.3	0.0	0.0	0.0	0.0	8.3	4.2	8.3	N = 24
	[474,483]	36.7	20.0	20.0	16.7	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[695,724)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	17.9	17.9	39.3	N = 28
	[724,790]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	17.9	21.4	57.1	N = 28

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[444,529)	6.31	9.22	9.22	9.22	6.31	11.65	10.68	5.34	16.02	16.02	(8.7%)
2nd/[529,548)	9.21	9.62	7.11	7.95	12.55	10.46	10.88	8.79	12.97	10.46	(10.1%)
3rd/[548,562)	5.44	9.62	9.62	10.88	9.62	9.21	12.97	8.79	10.04	13.81	(10.1%)
4th/[562,573)	7.11	11.46	11.07	9.88	10.28	8.30	8.70	13.44	7.91	11.86	(10.7%)
5th/[573,584)	10.24	7.80	11.71	8.29	10.73	8.78	9.76	14.15	7.80	10.73	(8.6%)
6th/[584,595)	9.65	9.65	9.21	8.77	11.40	9.65	8.77	13.60	10.53	8.77	(9.6%)
7th/[595,609)	12.45	10.04	8.03	10.44	8.03	11.24	11.65	8.84	9.64	9.64	(10.5%)
8th/[609,627)	10.24	12.99	8.66	9.84	12.60	9.06	9.45	8.66	8.27	10.24	(10.7%)
9th/[627,653)	11.11	9.20	11.11	14.94	11.88	10.34	6.13	7.66	10.73	6.90	(11%)
10th/[653,740]	12.13	10.46	13.39	9.21	6.28	11.30	10.88	11.30	7.53	7.53	(10.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

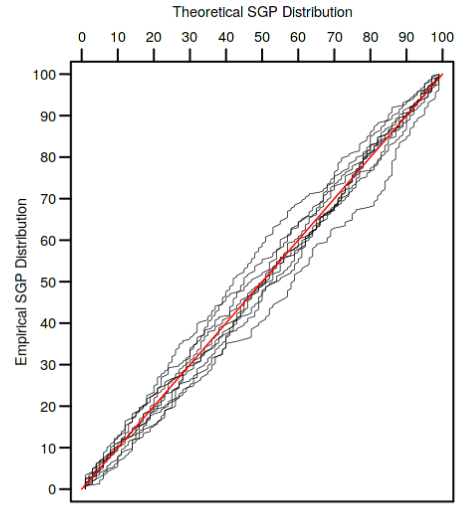
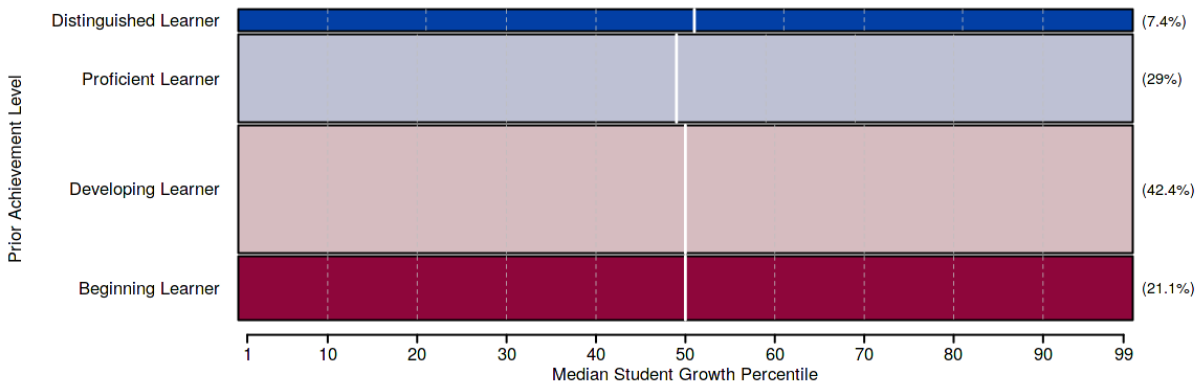


Fig. A.130: Goodness of Fit Plot for 2019 Coordinate Algebra (Priors 2018 Math Grade 8 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Coordinate Algebra SGP, Grade EOCT (N = 13,115)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[215,396)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
	[396,398]	97.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 35
Highest OSS:	[695,713)	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	17.4	13.0	8.7	52.2	N = 23
	[713,790]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	22.2	14.8	59.3	N = 27

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[358,451)	9.34	9.85	11.48	10.20	9.60	10.03	9.17	9.77	9.85	10.71	(8.9%)
2nd/[451,472)	9.29	9.92	9.43	10.27	9.99	10.27	10.42	10.49	9.64	10.27	(10.8%)
3rd/[472,486)	11.53	9.65	9.48	8.99	9.32	10.22	9.57	10.14	10.79	10.30	(9.3%)
4th/[486,498)	9.06	9.13	9.96	10.10	11.60	10.40	10.25	10.33	8.83	10.33	(10.2%)
5th/[498,509)	9.30	11.40	11.32	10.11	8.65	9.05	9.70	9.54	10.35	10.59	(9.4%)
6th/[509,520)	8.72	10.11	8.72	10.92	9.52	10.99	10.62	9.74	9.89	10.77	(10.4%)
7th/[520,534)	10.38	8.77	10.38	10.38	10.09	9.28	8.70	10.67	11.11	10.23	(10.4%)
8th/[534,550)	8.95	10.99	10.75	9.11	10.52	9.81	11.62	8.56	8.95	10.75	(9.7%)
9th/[550,572)	11.12	10.14	9.08	9.46	10.89	9.00	10.74	10.74	9.23	9.61	(10.1%)
10th/[572,755]	8.56	9.70	10.49	10.63	9.27	10.77	9.34	9.77	10.56	10.91	(10.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

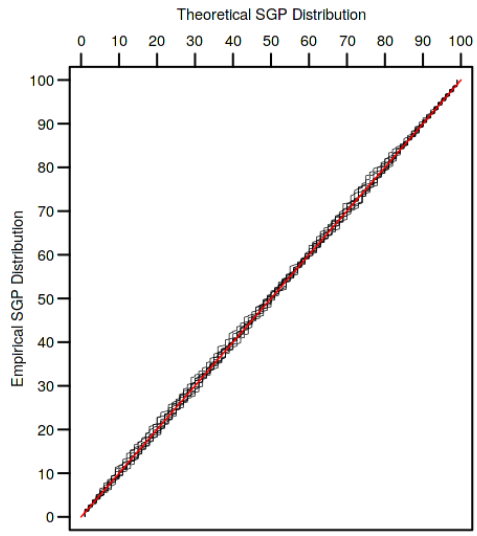
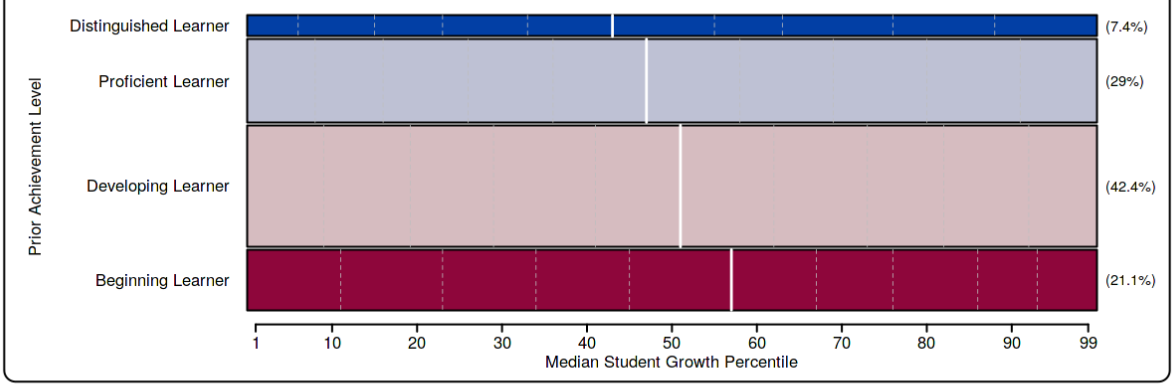


Fig. A.131: Goodness of Fit Plot for 2019 Coordinate Algebra (Priors 2018 Math Grade 8 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Coordinate Algebra SGP SIMEX, Grade EOCT (N = 13,115)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[215,396)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
	[396,398]	88.6	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 35
Highest OSS:	[695,713)	0.0	0.0	0.0	0.0	0.0	8.7	0.0	17.4	8.7	8.7	17.4	39.1	N = 23
	[713,790]	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	7.4	22.2	22.2	44.4	N = 27

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[358,451)	7.88	8.65	9.94	7.37	9.77	8.57	7.97	12.25	8.74	18.85	(8.9%)
2nd/[451,472)	8.16	8.80	9.22	9.78	9.99	8.44	8.30	11.89	11.61	13.79	(10.8%)
3rd/[472,486)	9.98	9.65	10.14	7.20	10.22	9.81	7.44	10.47	11.45	13.65	(9.3%)
4th/[486,498)	9.51	9.13	10.63	6.89	12.80	8.53	10.63	9.88	10.40	11.60	(10.2%)
5th/[498,509)	10.27	11.56	10.35	8.57	10.19	7.92	7.60	9.94	10.59	13.02	(9.4%)
6th/[509,520)	9.96	9.89	12.01	7.11	9.30	12.23	7.91	9.38	9.52	12.67	(10.4%)
7th/[520,534)	11.77	10.60	9.50	11.04	8.63	8.11	9.14	8.11	10.45	12.65	(10.4%)
8th/[534,550)	14.13	10.36	9.11	8.71	9.26	11.77	7.06	8.24	9.34	12.01	(9.7%)
9th/[550,572)	15.51	11.42	7.94	9.46	8.85	10.36	9.76	9.38	7.26	10.06	(10.1%)
10th/[572,755]	12.13	14.05	8.63	10.27	9.77	9.42	8.35	10.06	7.42	9.91	(10.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

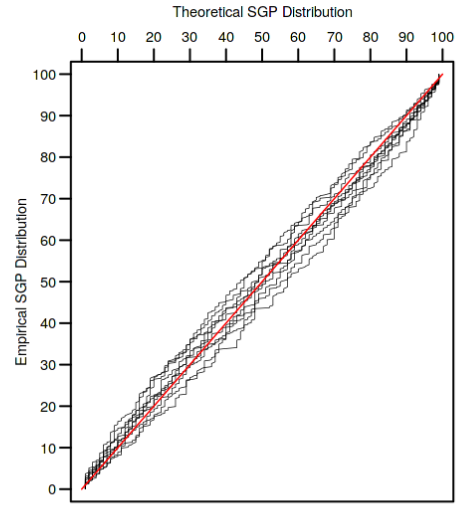
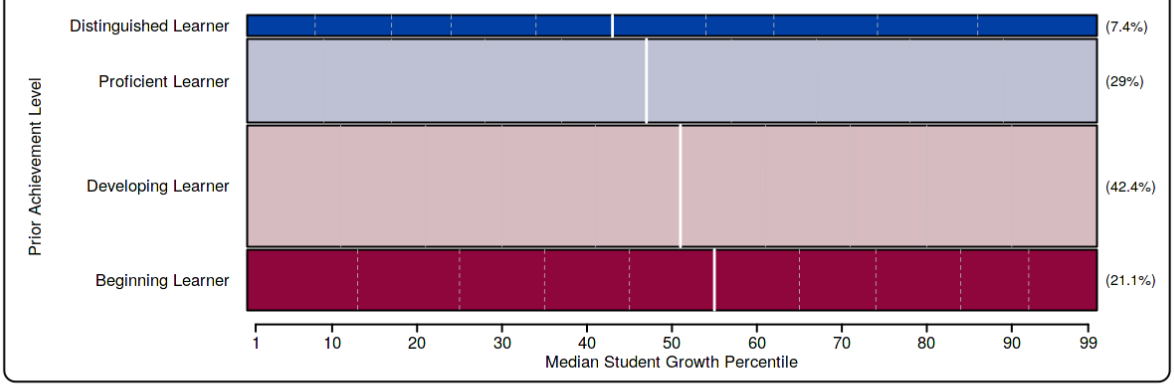


Fig. A.132: Goodness of Fit Plot for 2019 Coordinate Algebra (Priors 2018 Math Grade 8 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Coordinate Algebra SGP SIMEX Ranked, Grade EOCT (N = 13,115)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[215,396)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 29
	[396,398]	80.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 35
Highest OSS:	[695,713)	0.0	0.0	0.0	0.0	0.0	8.7	8.7	8.7	13.0	8.7	13.0	39.1	N = 23
	[713,790]	0.0	0.0	0.0	0.0	0.0	0.0	3.7	3.7	14.8	22.2	11.1	44.4	N = 27

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[358,451)	6.86	8.31	7.71	10.97	9.77	9.51	11.74	9.00	10.80	15.34	(8.9%)
2nd/[451,472)	6.90	8.66	9.08	11.33	9.57	8.87	10.98	11.47	12.03	11.12	(10.8%)
3rd/[472,486)	8.91	10.06	9.40	8.01	10.79	9.81	9.16	10.06	12.76	11.04	(9.3%)
4th/[486,498)	8.53	7.86	11.23	8.53	12.80	8.53	11.90	10.55	9.36	10.70	(10.2%)
5th/[498,509)	8.97	10.91	11.48	9.38	10.11	8.33	8.73	10.99	10.19	10.91	(9.4%)
6th/[509,520)	8.42	10.77	10.77	8.13	10.18	12.60	8.50	10.04	9.74	10.84	(10.4%)
7th/[520,534)	11.26	9.36	9.36	11.62	9.36	9.58	10.09	8.70	11.26	9.43	(10.4%)
8th/[534,550)	11.38	10.05	11.46	9.42	8.56	13.50	7.14	9.81	8.56	10.13	(9.7%)
9th/[550,572)	12.63	11.12	9.30	11.27	8.85	10.36	11.20	9.00	7.94	8.32	(10.1%)
10th/[572,755]	10.98	12.84	9.84	11.41	9.49	9.91	9.70	10.49	7.35	7.99	(10.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

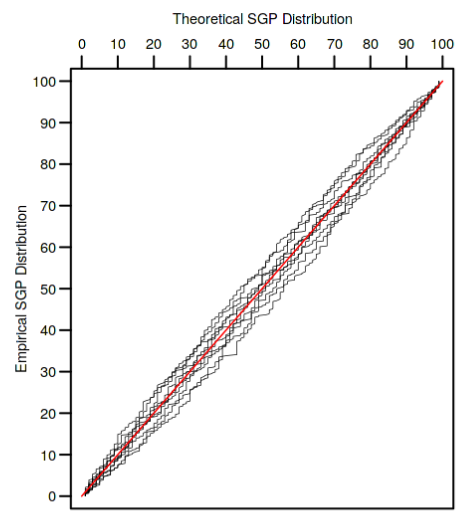
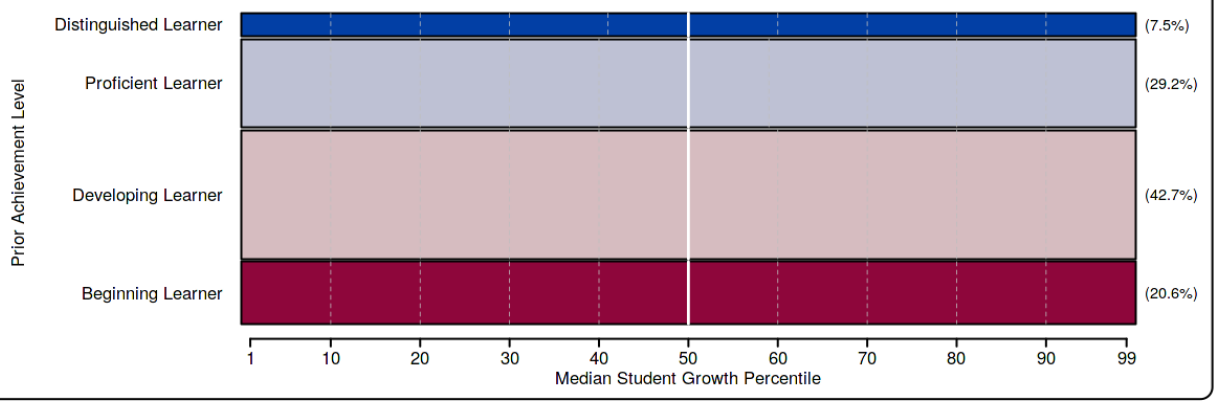


Fig. A.133: Goodness of Fit Plot for 2019 Coordinate Algebra (Priors 2018 Math Grade 8, 2017 Math Grade 7 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Coordinate Algebra SGP, Grade EOCT (N = 12,419)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[215,396)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[396,398]	96.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[687,713)	0.0	0.0	0.0	0.0	0.0	0.0	11.5	7.7	7.7	19.2	15.4	38.5	N = 26
	[713,790]	0.0	0.0	0.0	0.0	3.7	0.0	3.7	3.7	7.4	11.1	11.1	59.3	N = 27

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[358,454)	9.50	9.98	10.14	9.90	9.98	10.06	10.31	9.58	10.06	10.47	(10%)
2nd/[454,472)	9.39	9.75	9.13	10.45	10.36	10.01	9.83	10.80	9.66	10.62	(9.2%)
3rd/[472,487)	10.50	10.12	10.81	9.89	8.90	9.67	9.36	9.21	11.26	10.27	(10.6%)
4th/[487,498)	8.74	9.47	9.65	9.65	12.02	10.11	10.75	10.93	8.20	10.47	(8.8%)
5th/[498,510)	9.67	10.11	10.62	9.38	9.38	10.62	9.24	10.04	10.55	10.40	(11.1%)
6th/[510,520)	9.10	9.99	8.74	11.86	9.72	9.19	11.06	8.92	11.15	10.26	(9%)
7th/[520,534)	9.33	10.32	11.00	8.95	10.47	9.64	9.86	10.47	9.56	10.39	(10.6%)
8th/[534,550)	10.30	9.80	9.64	10.13	9.56	10.96	9.56	9.72	9.47	10.87	(9.8%)
9th/[550,573)	9.68	10.34	9.97	9.75	9.75	10.12	9.90	10.93	9.45	10.12	(10.9%)
10th/[573,755]	9.41	9.73	9.89	10.29	10.21	9.73	10.53	9.08	10.61	10.53	(10%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

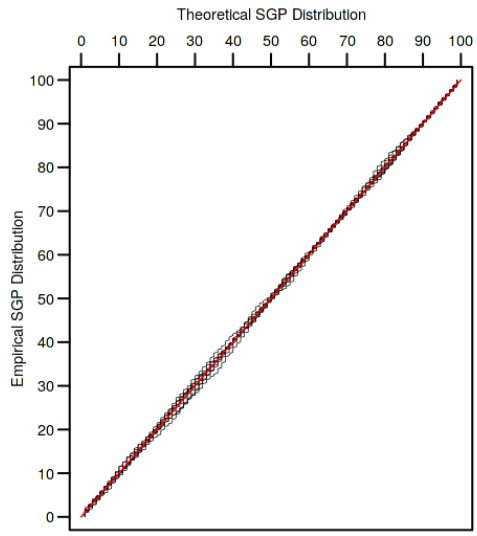
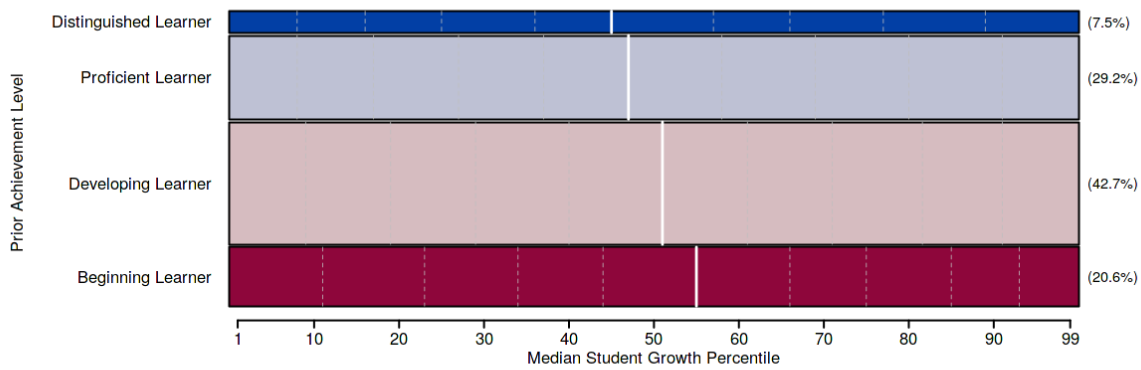


Fig. A.134: Goodness of Fit Plot for 2019 Coordinate Algebra (Priors 2018 Math Grade 8, 2017 Math Grade 7 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Coordinate Algebra SGP SIMEX, Grade EOCT (N = 12,419)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[215,396)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[396,398]	86.7	13.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[687,713)	0.0	0.0	0.0	0.0	3.8	7.7	3.8	7.7	11.5	15.4	15.4	34.6	N = 26
	[713,790]	0.0	0.0	3.7	0.0	0.0	3.7	3.7	7.4	3.7	11.1	14.8	51.9	N = 27

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[358,454)	8.45	8.37	9.18	9.58	7.97	8.94	10.47	10.63	10.39	16.02	(10%)
2nd/[454,472)	8.87	8.60	8.69	9.75	10.10	9.22	10.01	9.66	10.36	14.75	(9.2%)
3rd/[472,487)	10.43	9.67	9.89	9.51	9.28	9.44	8.37	9.44	10.65	13.32	(10.6%)
4th/[487,498)	9.02	9.38	9.65	8.74	10.93	10.38	9.20	12.02	8.93	11.75	(8.8%)
5th/[498,510)	10.76	10.69	10.62	7.78	8.07	10.84	9.02	9.53	11.20	11.49	(11.1%)
6th/[510,520)	10.88	9.55	10.79	9.37	9.46	8.92	9.90	8.65	11.60	10.88	(9%)
7th/[520,534)	11.76	10.09	10.47	8.42	11.31	8.35	9.26	8.80	10.55	11.00	(10.6%)
8th/[534,550)	13.76	9.14	9.80	8.98	9.88	9.47	9.23	8.65	9.64	11.45	(9.8%)
9th/[550,573)	12.11	10.49	11.15	8.71	9.08	9.45	9.90	9.97	7.90	11.23	(10.9%)
10th/[573,755]	12.54	11.50	10.93	9.89	9.81	8.20	10.13	8.04	8.60	10.37	(10%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

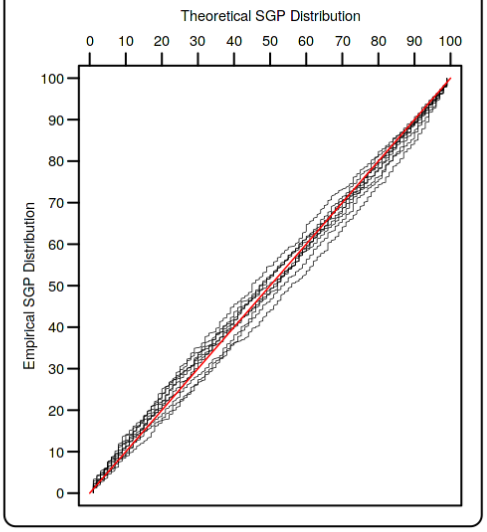
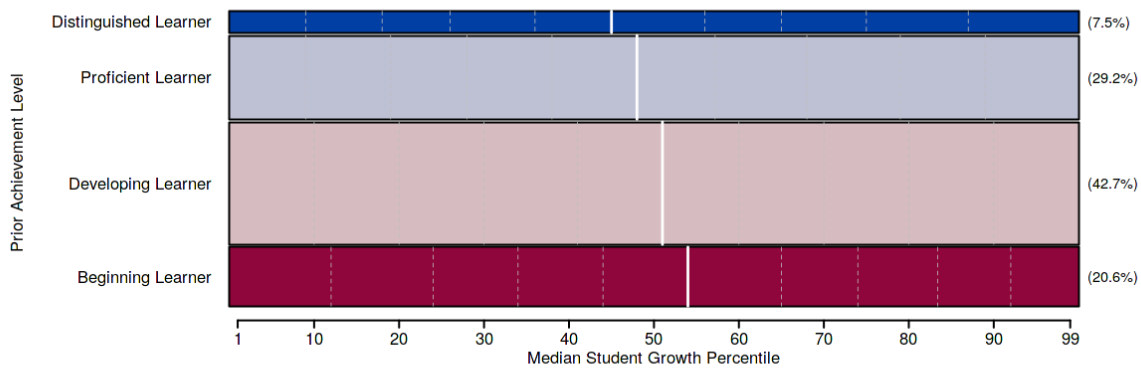


Fig. A.135: Goodness of Fit Plot for 2019 Coordinate Algebra (Priors 2018 Math Grade 8, 2017 Math Grade 7 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Coordinate Algebra SGP SIMEX Ranked, Grade EOCT (N = 12,419)

SGP Deciles by Prior Achievement Level (Mathematics)



Ceiling / Floor Effects Test

Student Growth Percentile Range

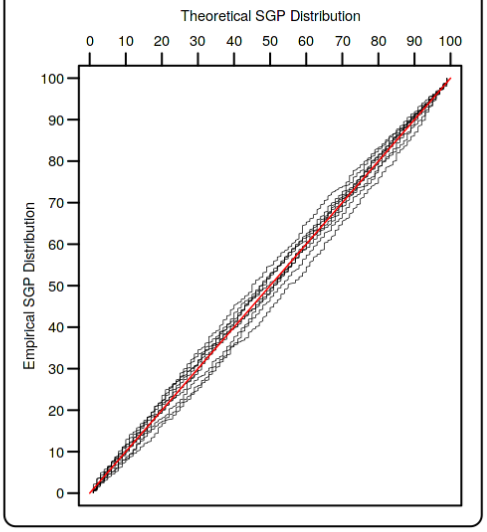
Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[215,396)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 24
	[396,398]	83.3	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 30
Highest OSS:	[687,713)	0.0	0.0	0.0	0.0	3.8	7.7	3.8	7.7	15.4	15.4	15.4	30.8	N = 26
	[713,790]	0.0	0.0	3.7	0.0	0.0	3.7	7.4	3.7	7.4	14.8	7.4	51.9	N = 27

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[358,454)	7.33	8.62	8.62	10.71	8.37	9.50	11.43	10.06	11.27	14.09	(10%)
2nd/[454,472)	7.99	8.96	8.69	9.75	10.71	10.27	9.75	10.97	10.97	11.94	(9.2%)
3rd/[472,487)	8.98	10.27	9.89	10.20	9.51	9.67	9.21	9.82	11.04	11.42	(10.6%)
4th/[487,498)	8.01	9.74	9.47	9.29	11.20	11.02	10.47	11.48	8.83	10.47	(8.8%)
5th/[498,510)	9.31	10.62	10.62	9.09	8.36	11.42	9.60	10.11	11.20	9.67	(11.1%)
6th/[510,520)	9.55	9.72	9.28	11.69	9.81	9.63	10.62	8.74	11.51	9.46	(9%)
7th/[520,534)	10.02	10.09	10.62	9.79	11.61	8.50	10.09	9.56	9.94	9.79	(10.6%)
8th/[534,550)	11.29	9.97	9.64	10.46	10.21	9.80	9.72	9.80	9.06	10.05	(9.8%)
9th/[550,573)	10.78	10.93	11.15	9.16	9.75	10.12	9.90	10.34	8.64	9.23	(10.9%)
10th/[573,755]	11.17	10.69	11.82	10.61	10.37	9.89	9.08	9.24	8.52	8.60	(10%)

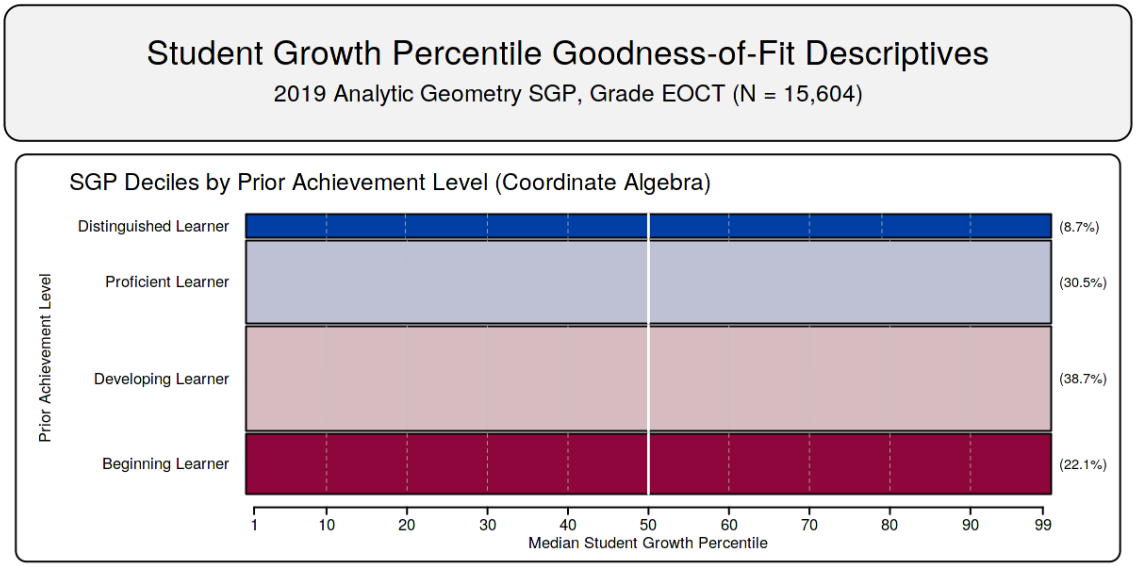
*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles



3.6 Analytic Geometry

Fig. A.136: Goodness of Fit Plot for 2019 Analytic Geometry (Priors 2018 Coordinate Algebra - Uncorrected).



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[327,382)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 21
	[382,390]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
Highest OSS:	[756,760)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	13.3	13.3	66.7	N = 15
	[760,810]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	7.1	4.8	16.7	66.7	N = 42

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[215,453)	9.58	9.39	10.38	9.91	10.44	9.98	10.84	9.12	9.91	10.44	(9.7%)
2nd/[453,471)	9.60	10.04	10.11	10.30	9.15	9.98	10.30	10.11	10.04	10.36	(10%)
3rd/[471,484)	9.01	11.76	8.71	9.93	10.16	10.77	7.87	10.92	10.92	9.93	(8.4%)
4th/[484,497)	9.75	9.31	10.86	9.68	10.12	9.19	11.36	10.12	9.06	10.55	(10.3%)
5th/[497,510)	9.70	9.39	9.76	10.85	10.00	9.58	10.67	8.73	10.48	10.85	(10.6%)
6th/[510,524)	9.65	11.42	9.65	9.06	10.65	10.71	8.95	9.83	10.12	9.95	(10.9%)
7th/[524,537)	9.37	9.64	10.53	9.99	9.51	9.37	9.37	11.35	10.19	10.67	(9.4%)
8th/[537,559)	9.46	8.68	9.70	10.73	9.40	10.73	10.73	10.19	8.80	11.57	(10.6%)
9th/[559,588)	9.82	10.54	9.75	10.54	10.14	9.82	10.08	9.03	10.86	9.42	(9.8%)
10th/[588,790]	9.25	10.56	10.12	9.50	10.31	9.81	9.57	10.50	9.81	10.56	(10.3%)

*Prior score deciles can be uneven depending upon the prior score distribution

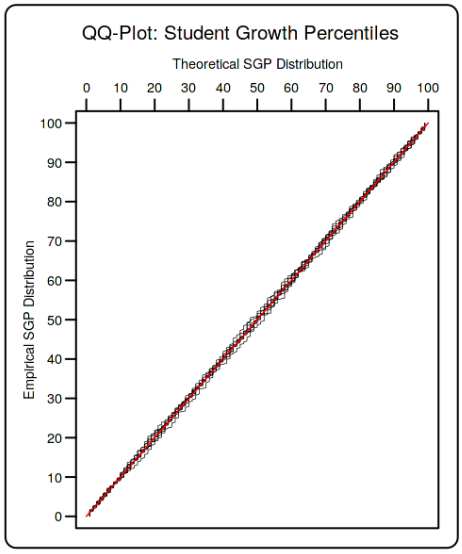
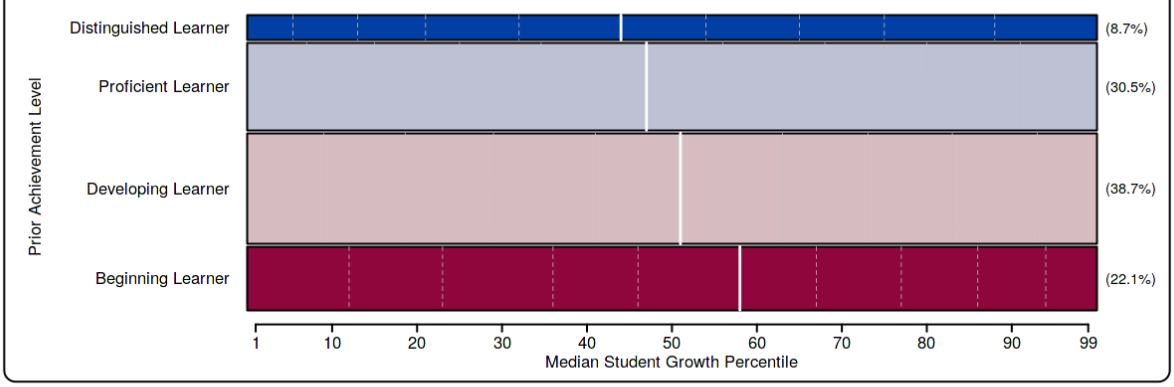


Fig. A.137: Goodness of Fit Plot for 2019 Analytic Geometry (Priors 2018 Coordinate Algebra - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Analytic Geometry SGP SIMEX, Grade EOCT (N = 15,604)

SGP Deciles by Prior Achievement Level (Coordinate Algebra)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[327,382)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 21
	[382,390]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
Highest OSS:	[756,760)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	26.7	6.7	60.0	N = 15
	[760,810]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	0.0	21.4	0.0	66.7	N = 42

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[215,453)	8.39	6.87	8.06	8.92	11.04	7.20	12.43	9.98	12.69	14.41	(9.7%)
2nd/[453,471)	8.83	8.32	8.00	8.70	9.79	9.09	8.70	11.90	10.75	15.93	(10%)
3rd/[471,484)	9.01	9.70	8.40	8.63	10.54	9.01	7.79	10.85	11.69	14.36	(8.4%)
4th/[484,497)	9.99	8.57	11.67	6.39	11.05	9.87	8.38	10.30	10.30	13.47	(10.3%)
5th/[497,510)	10.18	10.30	9.52	10.30	8.73	8.42	9.33	9.70	9.88	13.64	(10.6%)
6th/[510,524)	12.65	11.24	7.47	11.01	8.53	9.48	9.42	8.24	9.65	12.30	(10.9%)
7th/[524,537)	13.41	9.78	9.17	10.12	8.76	7.87	8.62	9.10	10.74	12.45	(9.4%)
8th/[537,559)	13.26	10.49	7.90	11.15	9.52	9.34	8.98	9.70	6.99	12.66	(10.6%)
9th/[559,588)	16.69	10.41	10.93	8.57	10.08	7.85	8.70	7.98	9.42	9.36	(9.8%)
10th/[588,790]	15.34	13.79	7.70	9.63	10.19	7.70	10.00	8.14	8.63	8.88	(10.3%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

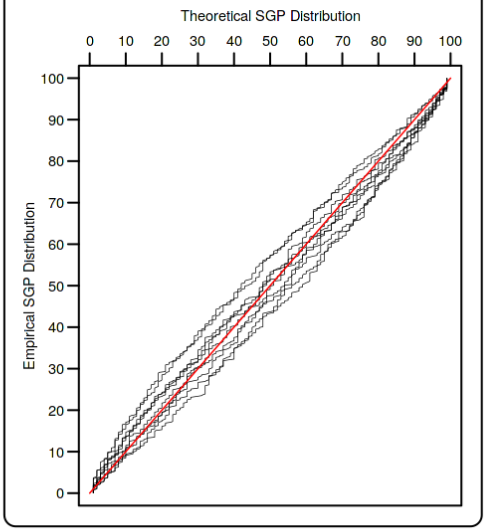
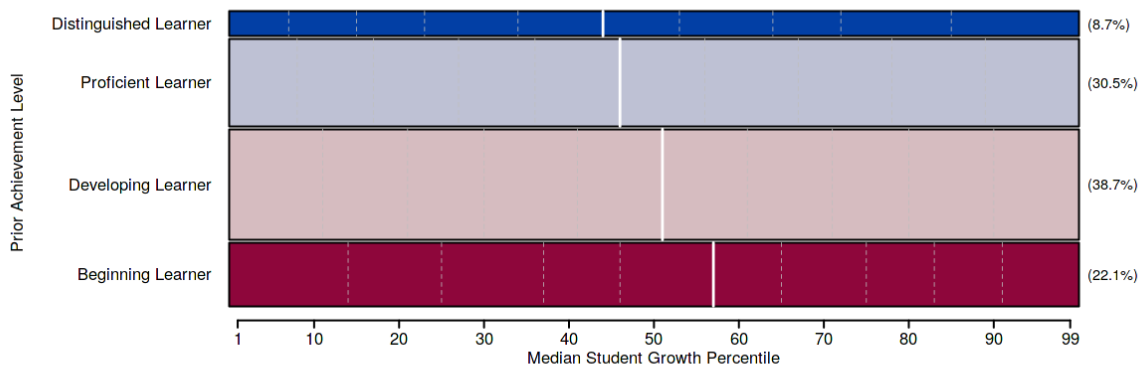


Fig. A.138: Goodness of Fit Plot for 2019 Analytic Geometry (Priors 2018 Coordinate Algebra - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Analytic Geometry SGP SIMEX Ranked, Grade EOCT (N = 15,604)

SGP Deciles by Prior Achievement Level (Coordinate Algebra)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[327,382)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 21
	[382,390]	90.6	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
Highest OSS:	[756,760)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.7	20.0	13.3	53.3	N = 15
	[760,810]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	0.0	21.4	4.8	61.9	N = 42

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[215,453)	6.94	6.54	9.19	9.45	10.97	8.13	12.03	12.16	12.49	12.10	(9.7%)
2nd/[453,471)	6.53	8.77	9.28	8.70	10.36	9.98	10.17	12.03	11.45	12.73	(10%)
3rd/[471,484)	7.49	8.63	10.77	8.02	11.31	10.62	8.02	10.92	13.06	11.15	(8.4%)
4th/[484,497)	7.88	9.06	11.24	8.07	10.68	11.67	9.87	9.19	11.48	10.86	(10.3%)
5th/[497,510)	9.21	9.03	10.67	10.48	8.55	11.21	10.18	9.76	8.97	11.94	(10.6%)
6th/[510,524)	9.71	11.95	9.30	10.77	8.53	10.83	9.77	8.89	10.18	10.06	(10.9%)
7th/[524,537)	9.64	11.97	9.51	10.81	9.30	9.17	8.89	11.22	9.17	10.33	(9.4%)
8th/[537,559)	10.31	10.49	9.40	11.33	10.31	11.15	9.52	9.52	7.23	10.73	(10.6%)
9th/[559,588)	12.83	11.32	10.99	11.19	10.21	8.18	10.27	9.10	8.12	7.79	(9.8%)
10th/[588,790]	13.73	12.36	9.32	10.25	10.99	8.82	10.87	7.95	8.32	7.39	(10.3%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

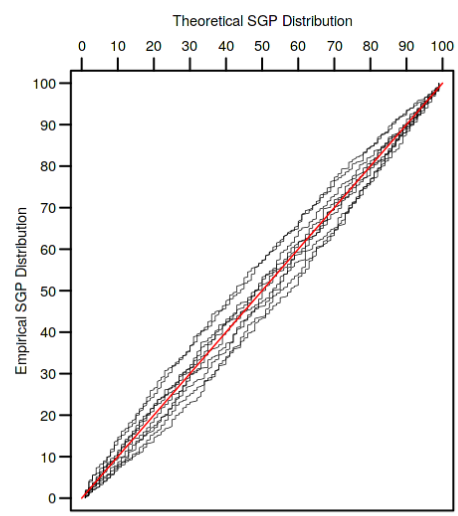
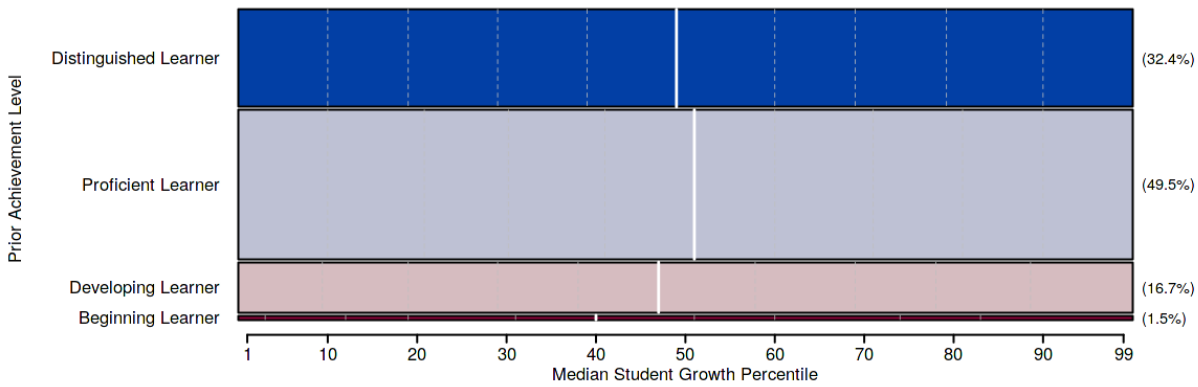


Fig. A.139: Goodness of Fit Plot for 2019 Analytic Geometry (Priors 2018 Coordinate Algebra, 2017 Math Grade 7 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Analytic Geometry SGP, Grade EOCT (N = 2,131)

SGP Deciles by Prior Achievement Level (Coordinate Algebra)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[409,472)	69.2	7.7	7.7	7.7	3.8	0.0	0.0	3.8	0.0	0.0	0.0	0.0	N = 26
	[472,483]	30.8	15.4	26.9	7.7	11.5	3.8	3.8	0.0	0.0	0.0	0.0	0.0	N = 26
Highest OSS:	[719,758)	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.7	8.7	21.7	26.1	30.4	N = 23
	[758,810]	0.0	0.0	0.0	0.0	0.0	3.6	0.0	7.1	3.6	17.9	7.1	60.7	N = 28

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[404,510)	11.88	10.89	9.41	10.89	7.92	10.89	9.41	9.90	9.90	8.91	(9.5%)
2nd/[510,527)	9.24	11.41	9.24	10.87	13.04	7.07	10.33	11.41	8.15	9.24	(8.6%)
3rd/[527,541)	9.50	10.74	8.68	8.26	9.09	10.33	9.92	10.74	11.16	11.57	(11.4%)
4th/[541,555)	8.50	5.00	14.50	12.00	8.50	10.50	12.00	8.50	9.50	11.00	(9.4%)
5th/[555,570)	10.57	11.45	8.81	9.69	12.33	10.13	7.05	9.69	9.25	11.01	(10.7%)
6th/[570,582)	12.23	12.77	9.57	10.64	11.17	12.77	5.32	8.51	10.11	6.91	(8.8%)
7th/[582,594)	6.57	7.07	9.60	9.09	7.07	10.61	13.13	12.12	12.12	12.63	(9.3%)
8th/[594,609)	9.21	9.21	9.21	10.09	9.21	9.21	14.47	11.40	8.33	9.65	(10.7%)
9th/[609,637)	10.67	13.33	10.67	10.67	9.78	9.78	7.56	7.56	10.22	9.78	(10.6%)
10th/[637,790]	9.70	9.28	9.70	9.28	11.81	8.86	10.55	8.86	9.70	12.24	(11.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

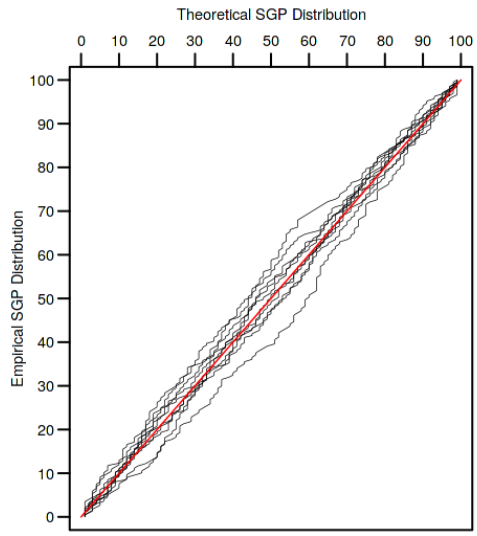
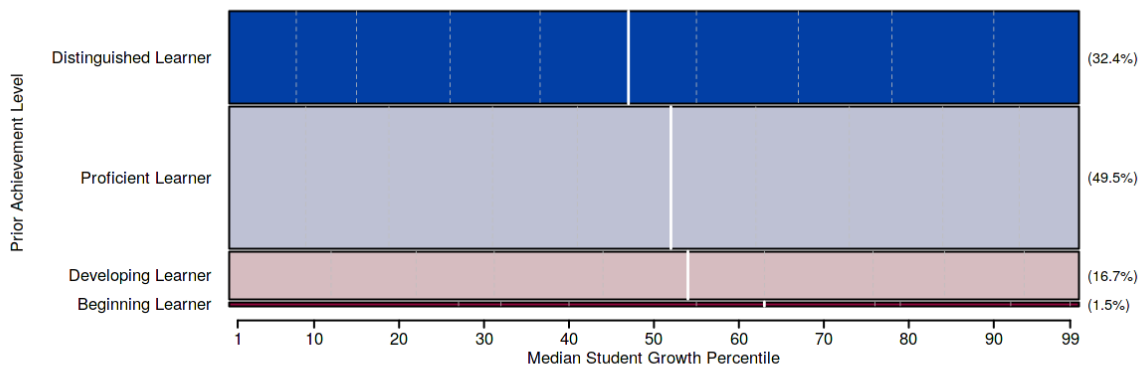


Fig. A.140: Goodness of Fit Plot for 2019 Analytic Geometry (Priors 2018 Coordinate Algebra, 2017 Math Grade 7 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Analytic Geometry SGP SIMEX, Grade EOCT (N = 2,131)

SGP Deciles by Prior Achievement Level (Coordinate Algebra)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[409,472)	46.2	11.5	7.7	0.0	15.4	0.0	3.8	0.0	3.8	0.0	3.8	7.7	N = 26
	[472,483]	30.8	7.7	11.5	23.1	7.7	3.8	7.7	0.0	3.8	0.0	0.0	3.8	N = 26
Highest OSS:	[719,758)	0.0	0.0	0.0	0.0	0.0	8.7	4.3	0.0	17.4	26.1	13.0	30.4	N = 23
	[758,810]	0.0	0.0	0.0	0.0	0.0	7.1	3.6	3.6	3.6	14.3	7.1	60.7	N = 28

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[404,510)	8.42	7.92	8.42	10.40	6.44	11.88	10.89	9.90	8.91	16.83	(9.5%)
2nd/[510,527)	8.15	10.33	9.24	9.24	10.33	8.70	11.41	10.87	8.70	13.04	(8.6%)
3rd/[527,541)	8.68	10.74	9.09	7.44	9.09	7.02	8.68	12.40	12.81	14.05	(11.4%)
4th/[541,555)	9.00	7.50	10.00	14.00	7.00	10.00	7.50	9.50	11.00	14.50	(9.4%)
5th/[555,570)	11.89	13.22	5.73	11.01	8.81	10.13	6.61	8.37	10.13	14.10	(10.7%)
6th/[570,582)	14.36	12.77	7.98	12.23	10.11	11.17	4.79	7.98	7.45	11.17	(8.8%)
7th/[582,594)	8.08	8.08	8.08	8.59	9.09	9.09	13.64	10.10	10.61	14.65	(9.3%)
8th/[594,609)	10.96	10.09	8.77	10.09	9.21	10.96	11.40	10.09	6.58	11.84	(10.7%)
9th/[609,637)	11.11	18.22	9.33	9.78	11.56	6.22	9.33	6.22	9.78	8.44	(10.6%)
10th/[637,790]	10.97	13.92	8.44	8.86	13.50	8.02	8.02	10.13	7.17	10.97	(11.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

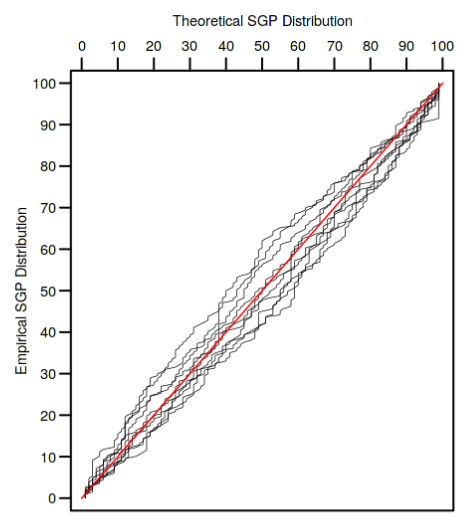
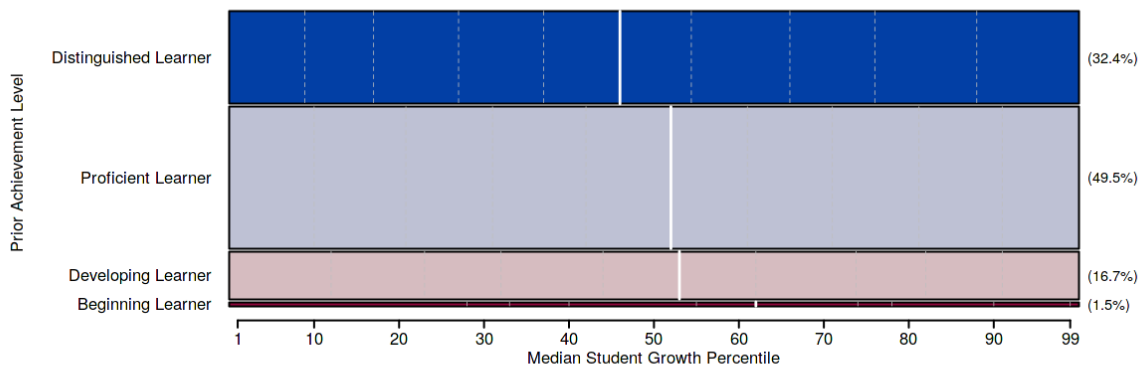


Fig. A.141: Goodness of Fit Plot for 2019 Analytic Geometry (Priors 2018 Coordinate Algebra, 2017 Math Grade 7 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Analytic Geometry SGP SIMEX Ranked, Grade EOCT (N = 2,131)

SGP Deciles by Prior Achievement Level (Coordinate Algebra)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[409,472)	34.6	23.1	7.7	0.0	11.5	3.8	3.8	0.0	3.8	0.0	3.8	7.7	N = 26
	[472,483]	26.9	11.5	11.5	23.1	7.7	3.8	7.7	0.0	3.8	0.0	0.0	3.8	N = 26
Highest OSS:	[719,758)	0.0	0.0	0.0	0.0	0.0	8.7	4.3	0.0	21.7	26.1	8.7	30.4	N = 23
	[758,810]	0.0	0.0	0.0	0.0	0.0	7.1	3.6	3.6	7.1	14.3	10.7	53.6	N = 28

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[404,510)	8.42	6.44	9.90	9.41	7.43	11.88	11.39	9.41	11.39	14.36	(9.5%)
2nd/[510,527)	7.07	10.33	10.33	8.15	10.87	10.33	11.41	10.87	9.78	10.87	(8.6%)
3rd/[527,541)	8.26	8.26	11.16	7.02	9.50	9.09	8.26	13.22	13.64	11.57	(11.4%)
4th/[541,555)	8.50	4.50	13.00	13.00	8.50	10.00	11.50	9.50	9.50	12.00	(9.4%)
5th/[555,570)	10.57	11.45	8.81	11.01	8.81	10.57	7.93	8.81	9.69	12.33	(10.7%)
6th/[570,582)	12.23	13.30	8.51	11.70	11.70	11.17	7.45	6.91	9.57	7.45	(8.8%)
7th/[582,594)	6.57	8.59	8.08	9.60	9.09	10.10	13.13	11.11	11.62	12.12	(9.3%)
8th/[594,609)	10.53	7.89	10.09	11.40	8.77	11.84	12.28	10.53	8.33	8.33	(10.7%)
9th/[609,637)	11.11	16.00	10.67	10.22	11.56	7.11	9.33	8.44	8.89	6.67	(10.6%)
10th/[637,790]	10.97	11.81	10.13	9.28	13.08	8.86	8.02	10.55	8.02	9.28	(11.1%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

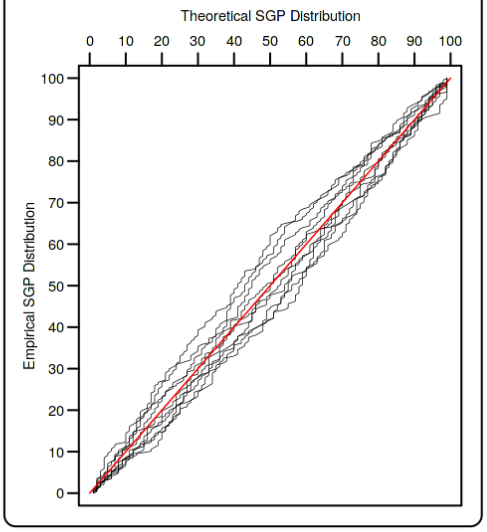
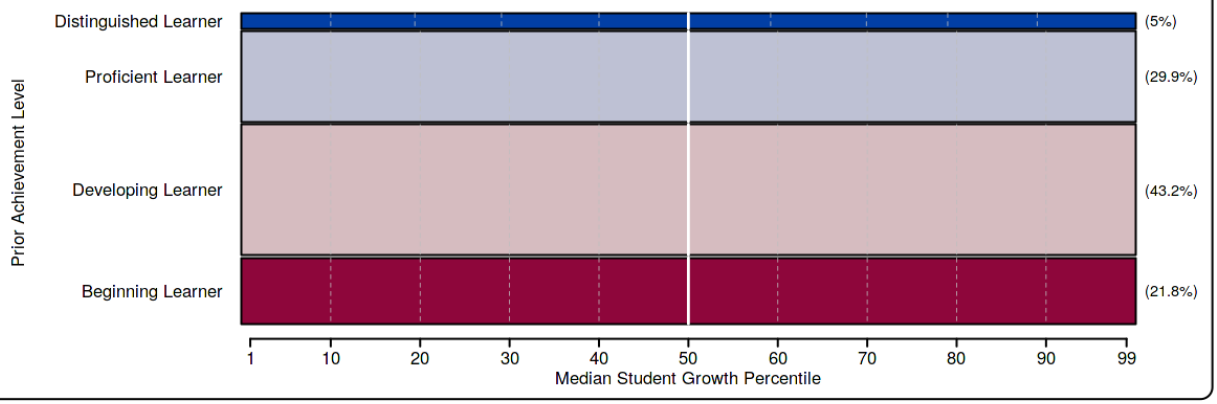


Fig. A.142: Goodness of Fit Plot for 2019 Analytic Geometry (Priors 2018 Coordinate Algebra, 2017 Math Grade 8 - Uncorrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Analytic Geometry SGP, Grade EOCT (N = 11,094)

SGP Deciles by Prior Achievement Level (Coordinate Algebra)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[327,389)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[389,392]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
Highest OSS:	[692,716)	0.0	0.0	0.0	0.0	3.8	0.0	3.8	7.7	7.7	19.2	26.9	30.8	N = 26
	[716,810]	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	13.3	6.7	10.0	60.0	N = 30

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[355,453)	9.64	9.54	10.56	9.64	9.75	10.25	10.46	9.14	10.46	10.56	(8.9%)
2nd/[453,471)	9.81	10.24	8.77	10.76	10.42	10.07	9.72	10.59	9.46	10.16	(10.4%)
3rd/[471,484)	9.31	9.81	10.01	9.21	9.51	9.91	10.11	10.61	11.01	10.51	(9%)
4th/[484,497)	9.68	10.99	10.84	9.68	9.84	9.92	10.30	9.76	8.99	9.99	(11.7%)
5th/[497,506)	8.91	8.13	9.58	10.58	11.47	10.02	8.69	9.35	11.36	11.92	(8.1%)
6th/[506,518)	9.72	11.23	10.48	10.56	9.14	8.89	10.65	9.89	9.30	10.14	(10.8%)
7th/[518,531)	9.78	9.60	9.42	9.51	10.40	10.58	10.76	10.58	9.78	9.60	(10.1%)
8th/[531,546)	9.21	9.71	10.79	10.29	10.21	9.88	8.63	10.21	9.96	11.12	(10.9%)
9th/[546,570)	10.22	10.03	8.33	8.80	9.65	11.54	10.41	9.37	11.54	10.12	(9.5%)
10th/[570,790]	9.50	10.09	10.51	10.85	10.01	9.17	10.09	10.26	8.92	10.60	(10.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

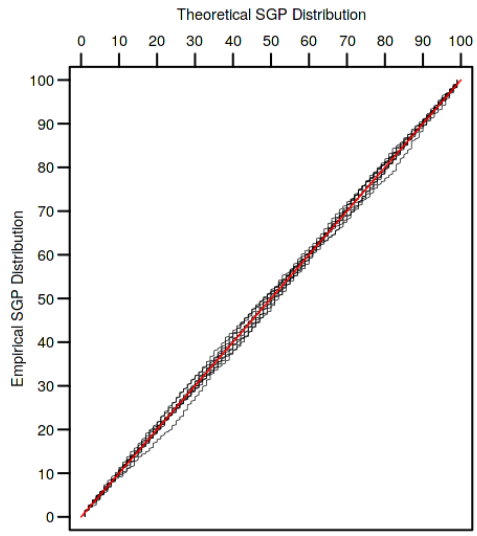
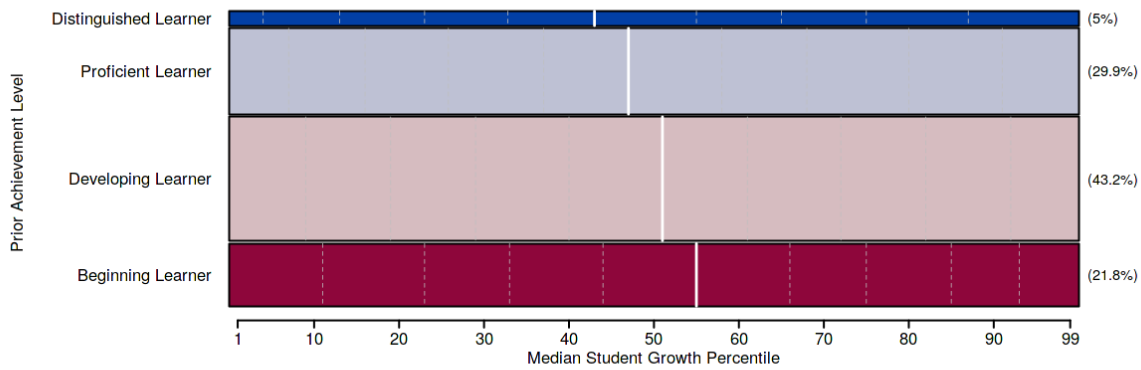


Fig. A.143: Goodness of Fit Plot for 2019 Analytic Geometry (Priors 2018 Coordinate Algebra, 2017 Math Grade 8 - SIMEX Corrected).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Analytic Geometry SGP SIMEX, Grade EOCT (N = 11,094)

SGP Deciles by Prior Achievement Level (Coordinate Algebra)



Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[327,389)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[389,392]	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
Highest OSS:	[692,716)	0.0	0.0	0.0	0.0	3.8	0.0	7.7	3.8	15.4	30.8	11.5	26.9	N = 26
	[716,810]	0.0	0.0	0.0	0.0	3.3	3.3	3.3	0.0	16.7	3.3	13.3	56.7	N = 30

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[355,453)	8.63	8.12	9.04	8.73	10.36	7.61	8.93	12.79	12.39	13.40	(8.9%)
2nd/[453,471)	8.77	9.38	8.33	8.07	11.46	9.20	9.29	11.20	10.68	13.63	(10.4%)
3rd/[471,484)	9.31	8.71	9.71	8.31	8.31	9.61	10.11	10.71	11.41	13.81	(9%)
4th/[484,497)	10.53	10.30	10.91	8.30	8.92	10.30	9.38	9.45	9.84	12.07	(11.7%)
5th/[497,506)	9.58	8.35	9.47	9.35	10.47	9.80	8.69	9.13	10.91	14.25	(8.1%)
6th/[506,518)	12.07	10.65	9.47	10.31	8.38	8.13	11.06	9.05	8.63	12.24	(10.8%)
7th/[518,531)	11.84	9.96	8.88	9.69	9.15	10.22	10.40	8.88	9.06	11.93	(10.1%)
8th/[531,546)	10.54	12.37	10.37	10.04	9.46	8.88	7.72	9.54	8.88	12.20	(10.9%)
9th/[546,570)	12.87	11.16	9.08	8.61	11.16	8.80	9.18	8.33	9.93	10.88	(9.5%)
10th/[570,790]	15.31	10.93	11.02	10.85	7.49	8.41	10.43	8.66	7.32	9.59	(10.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles

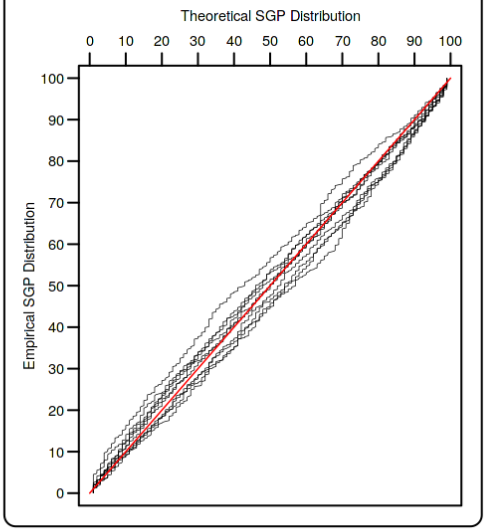
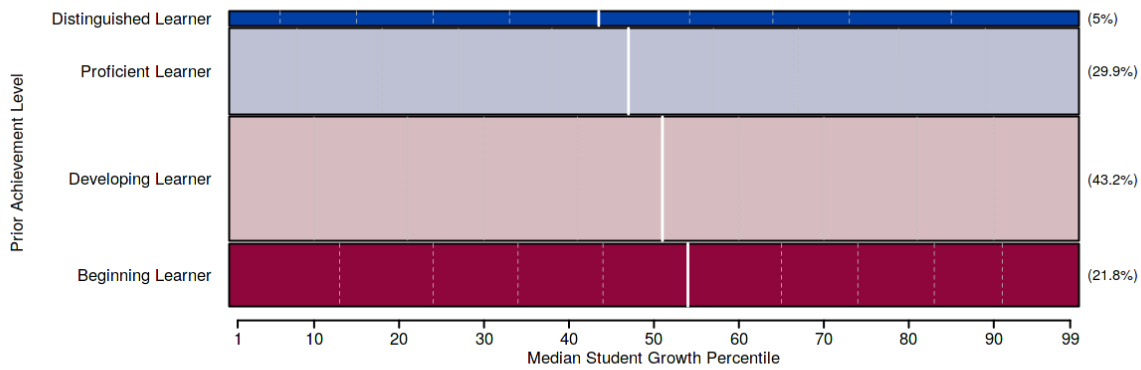


Fig. A.144: Goodness of Fit Plot for 2019 Analytic Geometry (Priors 2018 Coordinate Algebra, 2017 Math Grade 8 - Ranked SIMEX).

Student Growth Percentile Goodness-of-Fit Descriptives

2019 Analytic Geometry SGP SIMEX Ranked, Grade EOCT (N = 11,094)

SGP Deciles by Prior Achievement Level (Coordinate Algebra)



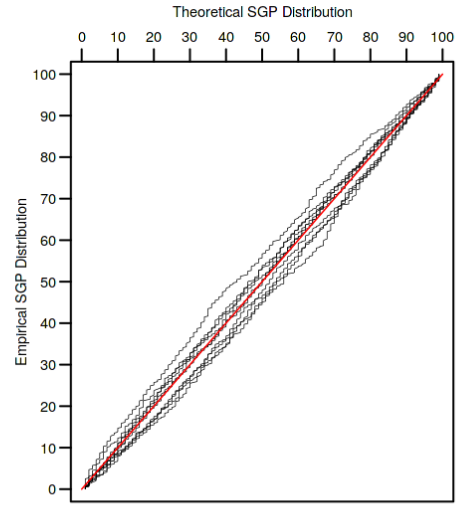
Ceiling / Floor Effects Test

Student Growth Percentile Range

Current Observed Score Extremes (Range)		1 to 5	5 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 94	95 to 99	
Lowest OSS:	[327,389)	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 25
	[389,392]	84.6	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
Highest OSS:	[692,716)	0.0	0.0	0.0	0.0	3.8	0.0	7.7	3.8	19.2	26.9	15.4	23.1	N = 26
	[716,810]	0.0	0.0	0.0	0.0	3.3	3.3	3.3	0.0	16.7	6.7	16.7	50.0	N = 30

Student Growth Percentile Range

Prior Scale Score Decile/Range*	1 to 9	10 to 19	20 to 29	30 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 to 89	90 to 99	
1st/[355,453)	6.70	8.73	9.04	9.75	10.66	8.43	10.66	11.78	12.39	11.88	(8.9%)
2nd/[453,471)	7.90	8.59	9.11	8.51	11.89	9.98	9.55	11.72	10.68	12.07	(10.4%)
3rd/[471,484)	8.21	8.71	9.71	9.01	8.71	10.51	10.31	11.51	11.71	11.61	(9%)
4th/[484,497)	8.46	10.99	11.30	8.30	9.92	11.22	9.99	9.45	9.61	10.76	(11.7%)
5th/[497,506)	8.57	7.68	9.91	9.80	11.25	10.36	9.47	9.35	11.47	12.14	(8.1%)
6th/[506,518)	9.47	11.15	10.65	10.98	8.63	9.47	10.98	9.47	8.72	10.48	(10.8%)
7th/[518,531)	9.96	10.04	9.24	10.31	9.96	11.84	10.04	9.33	9.78	9.51	(10.1%)
8th/[531,546)	9.71	11.54	9.96	11.45	10.12	9.54	7.63	10.54	8.96	10.54	(10.9%)
9th/[546,570)	11.45	11.07	9.27	8.99	12.11	9.56	9.74	9.37	9.56	8.89	(9.5%)
10th/[570,790]	13.71	11.27	10.34	12.36	7.91	9.50	10.77	8.66	7.40	8.07	(10.7%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ-Plot: Student Growth Percentiles