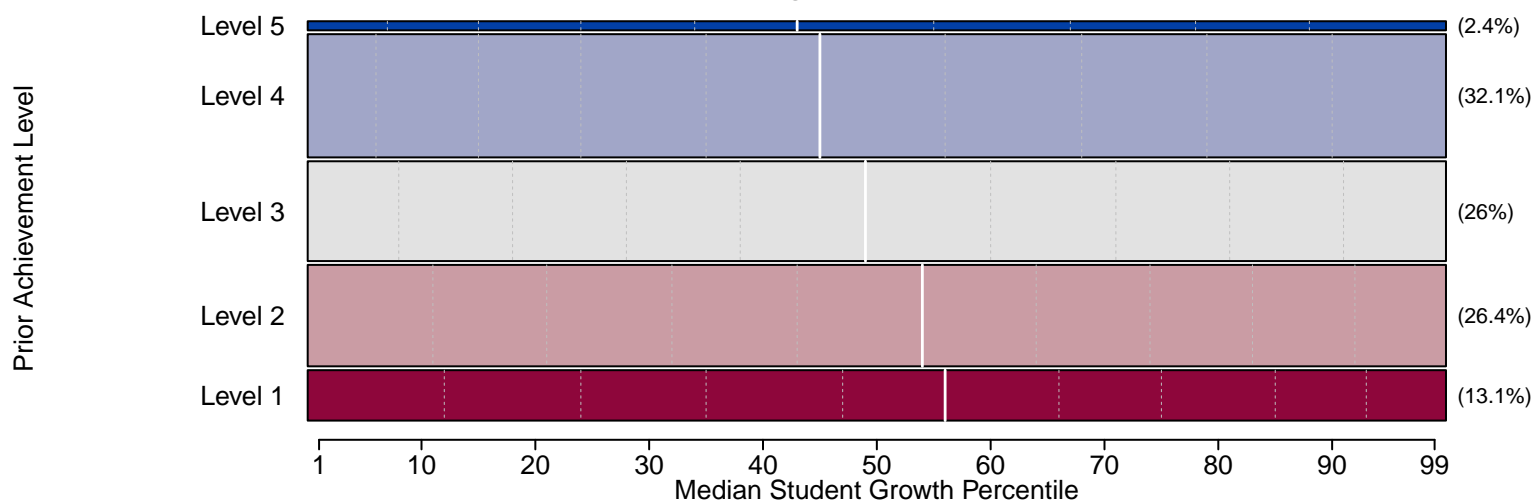# Student Growth Percentile Goodness–of–Fit Descriptives

2015–2016.2 Geometry SGP SIMEX, Grade EOCT (N = 104,364)

SGP Deciles by Prior Achievement Level (Algebra I)

Prior Achievement Level (y-axis):
- Level 5 (2.4%)
- Level 4 (32.1%)
- Level 3 (26%)
- Level 2 (26.4%)
- Level 1 (13.1%)

x-axis: Median Student Growth Percentile (1, 10, 20, 30, 40, 50, 60, 70, 80, 90, 99)

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: [−15,−4.883)	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
[−4.883,−4.311]	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 = 45
Highest OSS: [3.507,3.709)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	35.0	10.0	45.0	N = 20
[3.709,5.478]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	14.7	82.4	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/[−10,−1.272)	7.49	8.63	8.51	8.43	8.41	11.10	10.35	10.54	12.14	14.40	(10%)
2nd/[−1.272,−0.8787)	9.16	8.92	9.00	9.51	9.89	9.40	10.02	10.50	10.70	12.91	(10%)
3rd/[−0.8787,−0.5578)	8.92	9.74	8.66	9.81	9.24	9.26	9.92	10.40	10.96	13.08	(10%)
4th/[−0.5578,−0.2666)	9.17	9.56	9.18	8.66	9.69	9.20	9.83	10.18	11.00	13.54	(10%)
5th/[−0.2666,0.0367)	10.27	9.84	9.20	9.17	9.99	9.74	9.36	9.80	10.61	12.02	(10%)
6th/[0.0367,0.357)	12.61	10.23	9.79	9.94	8.86	8.59	9.19	9.25	9.90	11.64	(10%)
7th/[0.357,0.7026)	13.57	11.07	9.85	9.44	9.62	8.21	9.15	8.93	9.56	10.60	(10%)
8th/[0.7026,1.102)	14.30	11.86	9.60	9.47	8.92	8.80	8.39	8.87	9.48	10.30	(10%)
9th/[1.102,1.623)	13.29	11.17	9.83	9.64	8.88	9.16	8.52	9.30	9.14	11.06	(10%)
10th/[1.623,6.792)	13.16	11.31	10.68	10.15	9.19	9.38	8.53	9.15	8.88	9.57	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (x-axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100
Empirical SGP Distribution (y-axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100