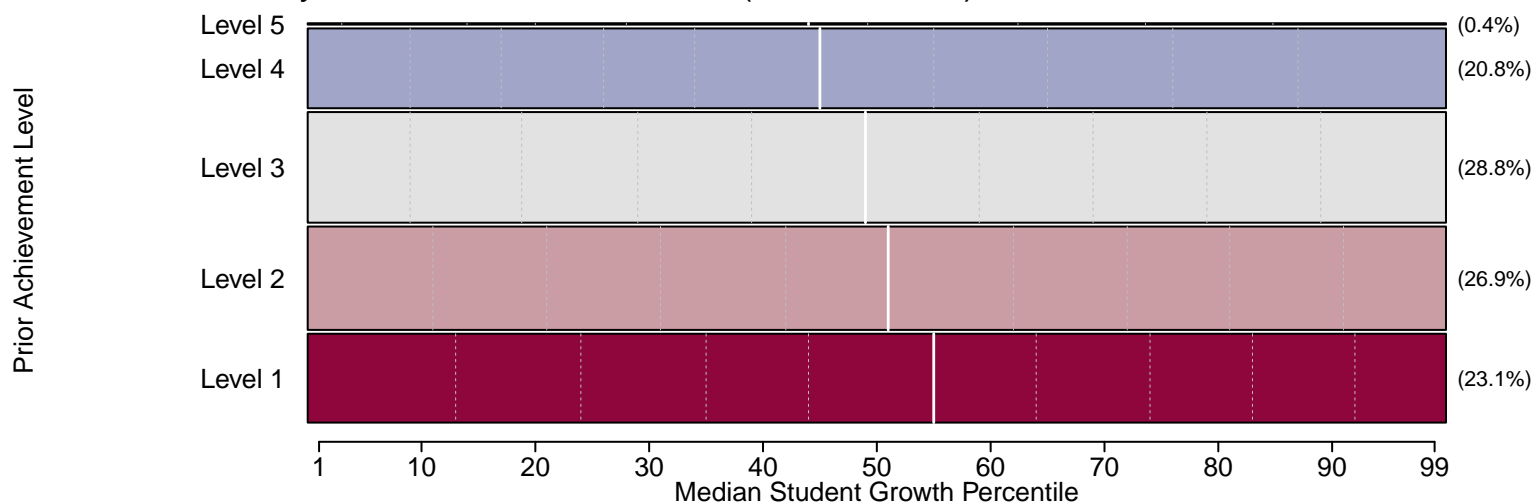# Student Growth Percentile Goodness–of–Fit Descriptives

2017–2018.2 Geometry SGP SIMEX Ranked, Grade EOCT (N = 57,225)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level (y-axis):
- Level 5 (0.4%)
- Level 4 (20.8%)
- Level 3 (28.8%)
- Level 2 (26.9%)
- Level 1 (23.1%)

Median Student Growth Percentile (x-axis): 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,−3.758)	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
	[−3.758,−3.748]	96.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	N = 31
Highest OSS:	[2.11,2.219]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4	21.7	17.4	17.4	26.1	N = 23
	[2.219,3.314]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.1	30.3	57.6	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/[−15,−1.448)	7.49	7.69	9.16	9.55	9.94	10.03	10.40	10.47	11.86	13.40	(9.8%)
2nd/[−1.448,−0.9846)	8.35	8.62	9.26	8.11	9.67	10.30	11.66	11.00	10.98	12.05	(10%)
3rd/[−0.9846,−0.6632)	8.34	9.10	8.76	10.13	10.08	9.59	10.41	12.05	9.64	11.90	(9.3%)
4th/[−0.6632,−0.3638)	8.14	8.38	9.64	11.02	9.09	10.79	11.15	8.94	11.42	11.43	(10.7%)
5th/[−0.3638,−0.1339)	9.26	9.31	8.83	12.32	10.72	8.97	8.95	10.20	9.47	11.98	(9.8%)
6th/[−0.1339,0.1286)	9.50	10.79	10.59	9.75	9.84	10.13	10.45	9.56	9.63	9.75	(9.8%)
7th/[0.1286,0.3629)	10.45	10.45	9.80	8.57	9.92	10.82	9.39	10.89	9.48	10.22	(9.9%)
8th/[0.3629,0.657)	10.95	10.85	11.87	8.69	11.37	9.93	9.34	8.30	9.49	9.22	(10.4%)
9th/[0.657,1.038)	9.93	12.15	9.67	10.95	10.19	9.00	10.05	9.98	9.32	8.77	(10.1%)
10th/[1.038,4.322]	12.84	12.58	11.71	10.31	9.81	9.73	9.09	8.61	8.07	7.25	(10.2%)

*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