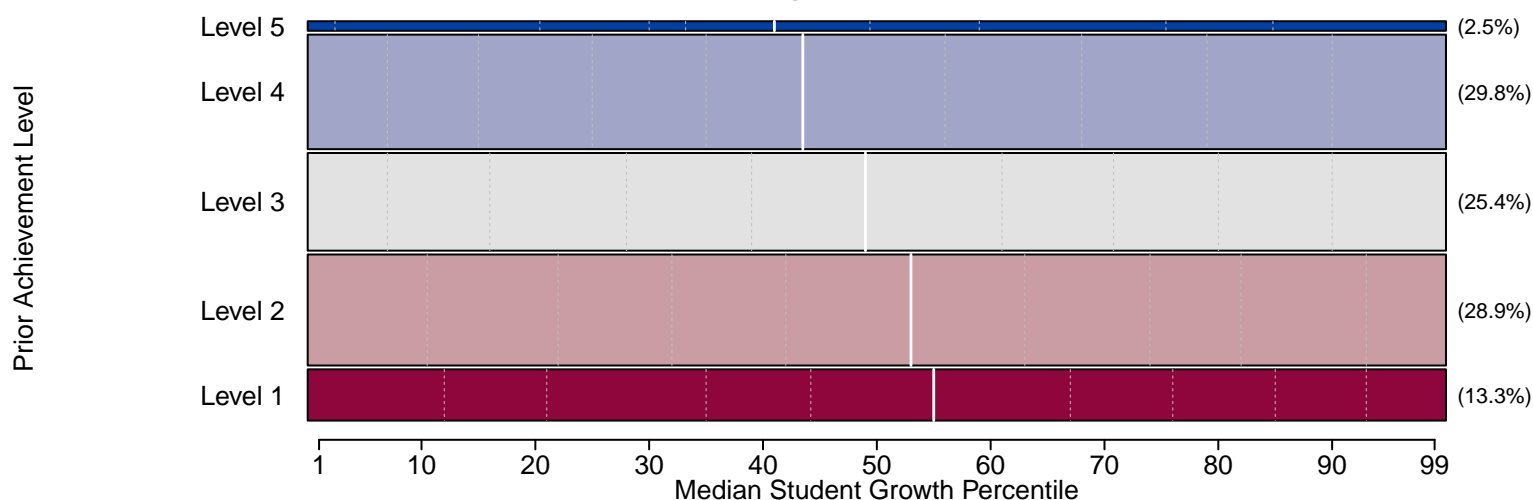# Student Growth Percentile Goodness–of–Fit Descriptives

2015–2016.1 Geometry SGP SIMEX, Grade EOCT (N = 2,615)

SGP Deciles by Prior Achievement Level (Algebra I)

Prior Achievement Level:
- Level 5 (2.5%)
- Level 4 (29.8%)
- Level 3 (25.4%)
- Level 2 (28.9%)
- Level 1 (13.3%)

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:	[−5.577,−1.95]	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 = 36
	[−1.9502]	37.8	42.2	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 45
Highest OSS:	[1.908,2.012]	4.3	0.0	0.0	0.0	0.0	13.0	8.7	4.3	13.0	17.4	0.0	39.1	N = 23
	[2.012,2.646]	0.0	0.0	0.0	0.0	3.4	3.4	3.4	6.9	6.9	20.7	13.8	41.4	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/[−5.979,−1.264)	7.25	8.02	12.21	8.40	8.78	9.92	9.92	10.31	11.45	13.74	(10%)
2nd/[−1.264,−0.902)	7.36	6.98	11.24	7.36	8.14	8.91	8.14	18.22	8.53	15.12	(9.9%)
3rd/[−0.902,−0.6018)	13.21	7.92	10.19	10.94	9.43	8.68	7.17	10.19	9.06	13.21	(10.1%)
4th/[−0.6018,−0.3291)	6.92	7.31	10.38	9.62	9.62	12.31	10.00	11.92	9.23	12.69	(9.9%)
5th/[−0.3291,−0.0433)	10.31	12.21	6.87	11.07	6.87	10.69	9.16	9.54	9.16	14.12	(10%)
6th/[−0.0433,0.2879)	12.21	10.69	9.54	8.40	8.78	7.63	10.31	11.07	11.07	10.31	(10%)
7th/[0.2879,0.6329)	12.26	8.43	9.20	8.43	13.03	8.81	10.73	8.81	7.28	13.03	(10%)
8th/[0.6329,1.037)	15.27	15.65	10.69	12.60	7.63	7.25	7.25	8.40	6.87	8.40	(10%)
9th/[1.037,1.623)	13.79	9.58	5.75	13.79	9.96	6.13	9.58	9.20	10.34	11.88	(10%)
10th/[1.623,3.96]	14.12	9.16	9.54	10.31	10.69	9.16	6.87	10.31	11.83	8.02	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (0 to 100) vs Empirical SGP Distribution (0 to 100)