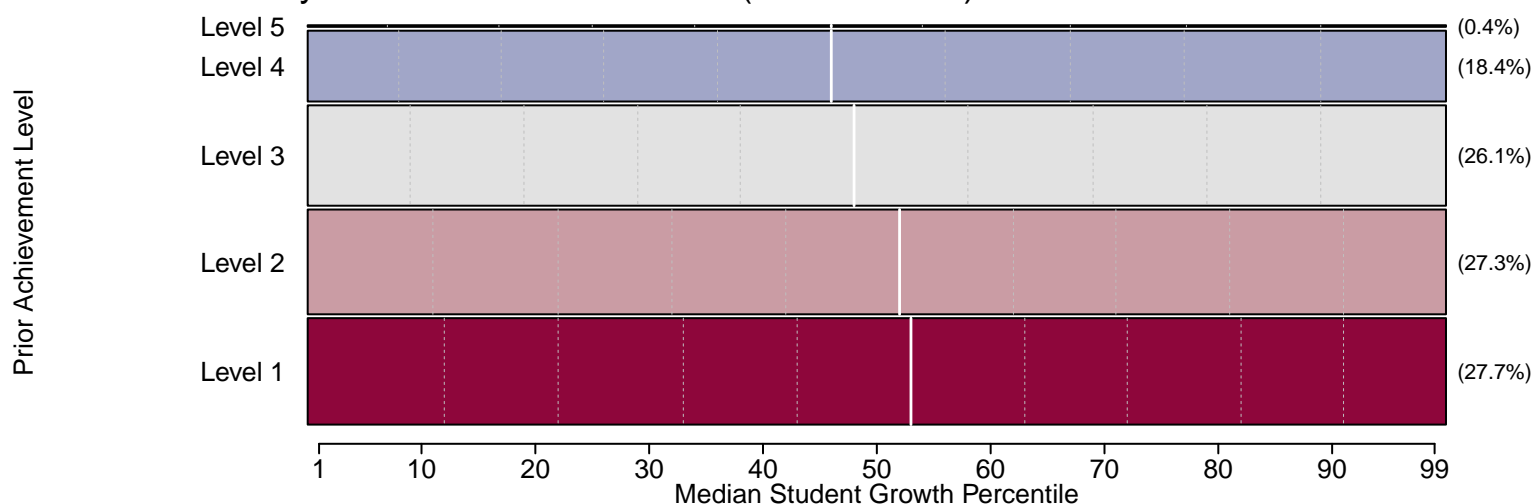# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.2 Algebra I SGP SIMEX Ranked, Grade EOCT (N = 128,022)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level (vs. Median Student Growth Percentile):
- Level 5 (0.4%)
- Level 4 (18.4%)
- Level 3 (26.1%)
- Level 2 (27.3%)
- Level 1 (27.7%)

Ceiling / Floor Effects Test

Current Observed Score Extremes (Range) vs. Student Growth Percentile 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,−4.1]	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
	[−4.1009]	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:	[2.77,2.94]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7	30.8	15.4	42.3	N = 26
	[2.94,3.96]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	14.8	74.1	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/[−15,−1.5)	8.14	8.48	9.52	10.21	10.03	9.53	10.41	10.76	10.64	12.27	(9.4%)
2nd/[−1.5,−1.08)	8.03	9.55	9.32	9.46	9.46	10.40	10.58	10.65	10.65	11.91	(10%)
3rd/[−1.08,−0.793)	8.51	9.64	9.61	9.45	9.95	10.02	10.25	10.90	10.26	11.41	(10.1%)
4th/[−0.793,−0.509)	8.36	8.93	9.79	10.12	9.68	10.23	10.09	10.33	10.50	11.97	(9.9%)
5th/[−0.509,−0.259)	8.71	9.24	9.63	10.15	10.09	10.17	10.55	10.18	10.32	10.95	(10.1%)
6th/[−0.259,0.0185)	9.14	9.60	9.46	10.25	10.38	10.60	10.10	10.00	10.00	10.47	(10%)
7th/[0.0185,0.258)	9.82	10.55	9.92	10.18	10.01	10.01	10.16	9.90	9.53	9.92	(9.9%)
8th/[0.258,0.58)	10.65	10.78	10.51	10.43	9.68	9.73	9.34	9.66	9.45	9.77	(10%)
9th/[0.58,1.01)	11.39	11.14	10.30	9.72	10.33	9.79	9.15	9.29	9.24	9.66	(10.2%)
10th/[1.01,4.56]	12.05	11.74	10.57	9.79	10.15	9.78	9.42	9.03	8.83	8.65	(10.2%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution vs. Empirical SGP Distribution