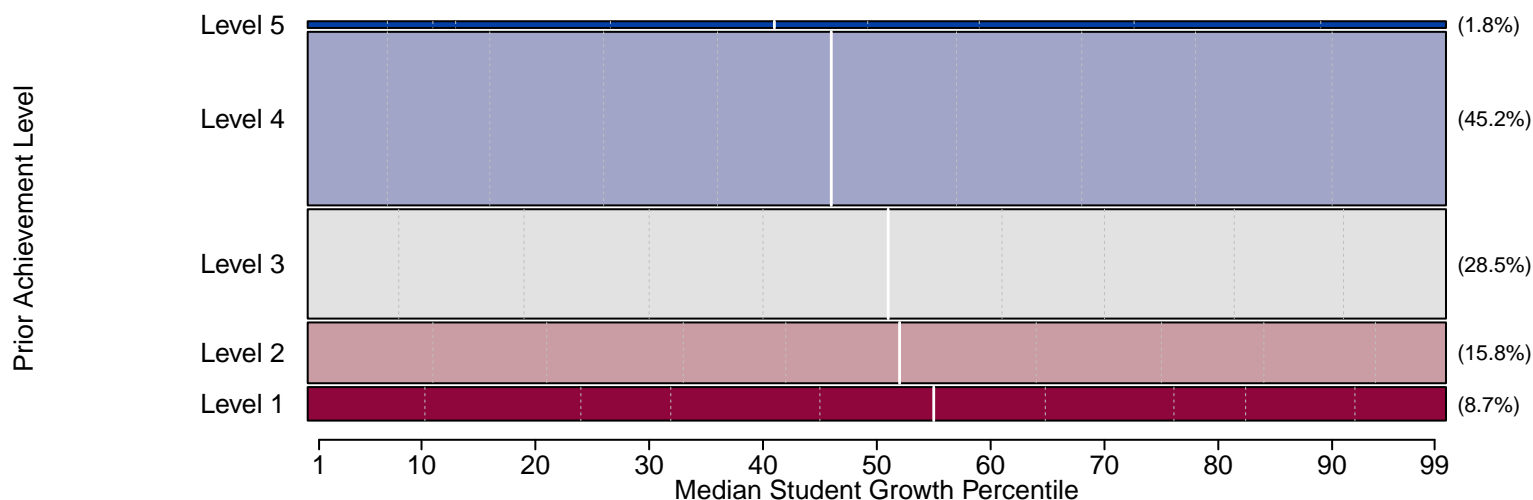# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.1 Algebra I SGP SIMEX, Grade EOCT (N = 3,367)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level	Percent
Level 5	(1.8%)
Level 4	(45.2%)
Level 3	(28.5%)
Level 2	(15.8%)
Level 1	(8.7%)

Median Student Growth Percentile

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	N
Lowest OSS:	[−15,−2.14)	65.7	14.3	11.4	2.9	0.0	2.9	0.0	0.0	2.9	0.0	0.0	0.0	N = 35
	[−2.14,−1.85]	31.4	34.3	22.9	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 35
Highest OSS:	[2.29,2.47]	0.0	0.0	0.0	0.0	0.0	0.0	4.0	8.0	28.0	20.0	8.0	32.0	N = 25
	[2.47,3.69]	3.8	0.0	3.8	3.8	0.0	0.0	0.0	3.8	0.0	19.2	11.5	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/[−4.24,−0.79)	9.38	9.09	8.50	7.33	9.38	8.80	9.97	10.85	9.68	17.01	(9.7%)
2nd/[−0.79,−0.31)	8.01	8.90	9.20	8.31	9.50	12.46	10.09	6.82	14.54	12.17	(9.7%)
3rd/[−0.31,0.04)	12.12	7.99	9.64	13.22	11.57	9.37	8.26	7.16	12.40	8.26	(10.5%)
4th/[0.04,0.3)	8.65	13.49	9.34	9.00	6.57	9.69	10.03	9.00	10.38	13.84	(9.7%)
5th/[0.3,0.55)	12.35	6.33	8.73	11.75	8.73	9.04	10.54	9.34	9.34	13.86	(9.9%)
6th/[0.55,0.78)	10.92	7.47	9.20	12.07	12.64	8.62	10.63	8.05	10.34	10.06	(10.3%)
7th/[0.78,1.01)	10.33	12.23	11.41	8.97	7.88	9.78	9.51	9.78	7.88	12.23	(10%)
8th/[1.01,1.26)	11.80	8.52	12.46	8.52	8.85	9.51	8.20	10.16	8.85	13.11	(10%)
9th/[1.26,1.6)	15.25	12.43	11.30	7.63	9.89	10.45	6.50	9.60	7.91	9.04	(10.1%)
10th/[1.6,4.25]	13.07	13.37	10.33	7.60	8.51	10.33	10.33	10.03	8.81	7.60	(10.2%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution