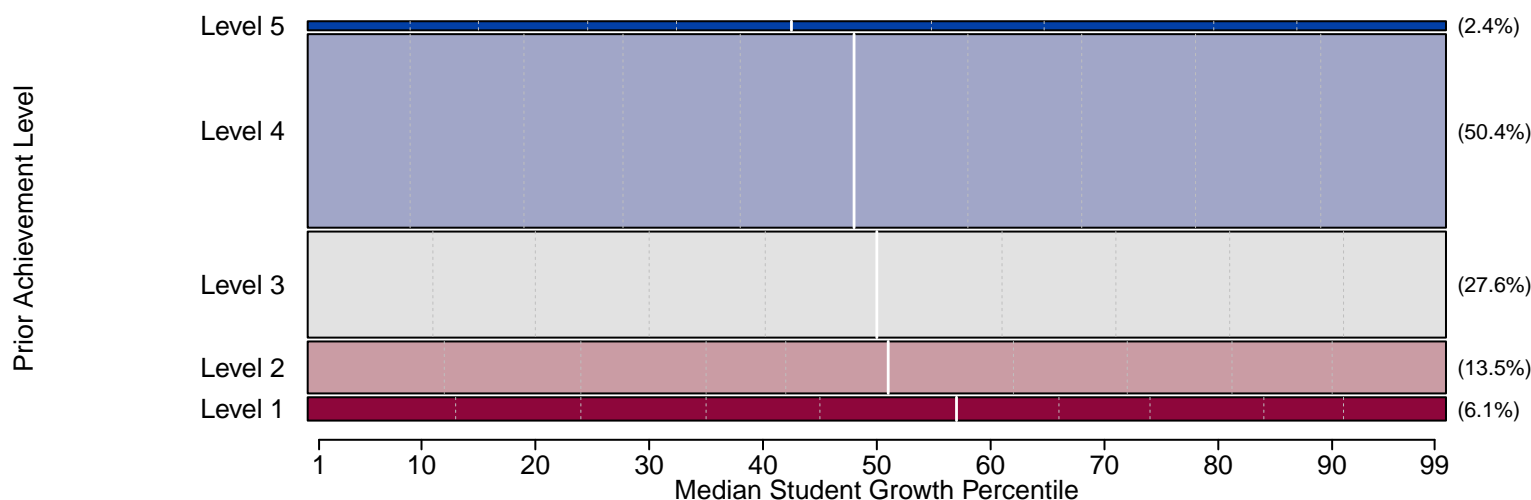# Student Growth Percentile Goodness–of–Fit Descriptives
2018–2019.1 Algebra I SGP SIMEX Ranked, Grade EOCT (N = 3,472)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level	Percent
Level 5	(2.4%)
Level 4	(50.4%)
Level 3	(27.6%)
Level 2	(13.5%)
Level 1	(6.1%)

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	
Lowest OSS:	[−4.75,−1.902)	55.6	27.8	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 18
	[−1.902,−1.617)	32.7	12.7	30.9	10.9	7.3	1.8	1.8	1.8	0.0	0.0	0.0	0.0	N = 55
Highest OSS:	[2.375,2.563)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	4.5	9.1	18.2	54.5	N = 22
	[2.563,3.511]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	35.5	16.1	38.7	N = 31

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,−0.6016)	7.88	9.70	9.09	8.18	10.61	7.88	12.12	9.09	11.52	13.94	(9.5%)
2nd/[−0.6016,−0.1069)	7.69	7.69	10.54	12.54	8.83	10.26	10.26	11.40	10.83	9.97	(10.1%)
3rd/[−0.1069,0.1898)	9.94	10.80	11.36	8.24	9.09	9.38	8.24	10.80	11.08	11.08	(10.1%)
4th/[0.1898,0.4823)	8.86	10.29	7.43	11.43	11.14	8.86	10.29	8.57	11.14	12.00	(10.1%)
5th/[0.4823,0.6755)	10.76	9.18	7.59	11.39	12.03	10.13	8.86	13.29	8.23	8.54	(9.1%)
6th/[0.6755,0.9285)	7.97	9.34	9.89	11.54	8.24	9.07	11.26	8.79	10.71	13.19	(10.5%)
7th/[0.9285,1.13)	10.08	11.17	9.26	7.63	10.90	12.53	10.08	8.99	10.35	8.99	(10.6%)
8th/[1.13,1.378)	8.96	10.69	14.45	10.69	7.23	10.40	9.83	9.54	8.38	9.83	(10%)
9th/[1.378,1.668)	13.22	10.06	11.78	9.20	10.34	10.06	10.63	8.33	8.91	7.47	(10%)
10th/[1.668,3.855]	11.49	10.06	10.92	10.34	11.21	10.06	9.20	10.34	8.33	8.05	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution