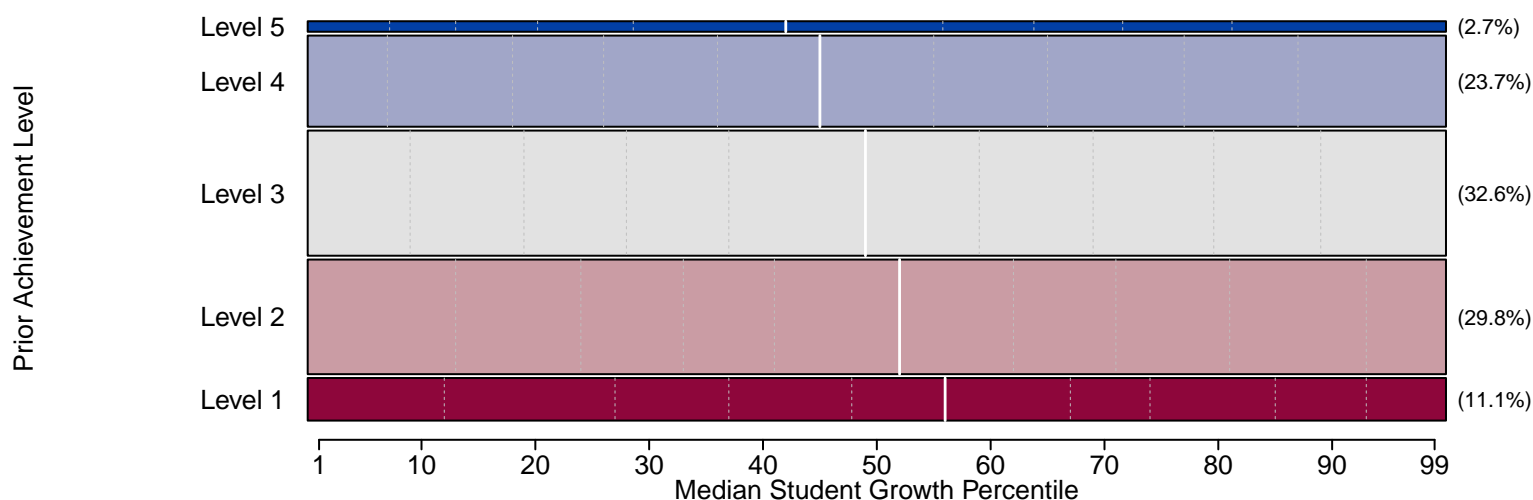# Student Growth Percentile Goodness–of–Fit Descriptives

2017–2018.1 Algebra II SGP SIMEX Ranked, Grade EOCT (N = 2,372)

SGP Deciles by Prior Achievement Level (Geometry)

Prior Achievement Level	
Level 5	(2.7%)
Level 4	(23.7%)
Level 3	(32.6%)
Level 2	(29.8%)
Level 1	(11.1%)

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:	[−15,−2.121)	97.3	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 37
	[−2.121,−1.968]	27.3	50.0	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 44
Highest OSS:	[2.285,2.598]	0.0	0.0	4.2	4.2	4.2	16.7	0.0	25.0	8.3	12.5	8.3	16.7	N = 24
	[2.598,3.68]	0.0	0.0	3.8	0.0	0.0	0.0	7.7	7.7	15.4	23.1	19.2	23.1	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/[−15,−1.304)	7.49	9.69	7.49	7.93	11.01	10.57	11.01	8.81	12.33	13.66	(9.6%)
2nd/[−1.304,−0.9991)	9.63	5.96	9.63	8.72	13.76	8.26	9.63	12.39	9.63	12.39	(9.2%)
3rd/[−0.9991,−0.6851)	6.44	11.74	10.98	9.85	9.85	12.12	10.61	10.23	8.71	9.47	(11.1%)
4th/[−0.6851,−0.3839)	5.53	8.94	9.36	12.34	5.96	13.19	10.64	11.91	10.64	11.49	(9.9%)
5th/[−0.3839,−0.0916)	10.68	9.83	6.41	7.69	8.55	11.54	9.40	8.55	12.82	14.53	(9.9%)
6th/[−0.0916,0.1797)	8.16	12.24	13.47	9.80	10.61	6.94	10.61	11.02	8.98	8.16	(10.3%)
7th/[0.1797,0.5288)	12.45	8.15	13.73	7.73	9.87	11.16	10.73	7.73	9.01	9.44	(9.8%)
8th/[0.5288,0.8803)	15.13	7.14	9.66	13.45	10.08	10.92	8.82	9.24	9.24	6.30	(10%)
9th/[0.8803,1.345)	10.42	11.25	14.17	10.83	10.00	8.75	9.58	9.58	7.08	8.33	(10.1%)
10th/[1.345,2.731]	10.92	14.71	6.72	9.66	12.61	6.30	10.08	10.08	10.08	8.82	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution