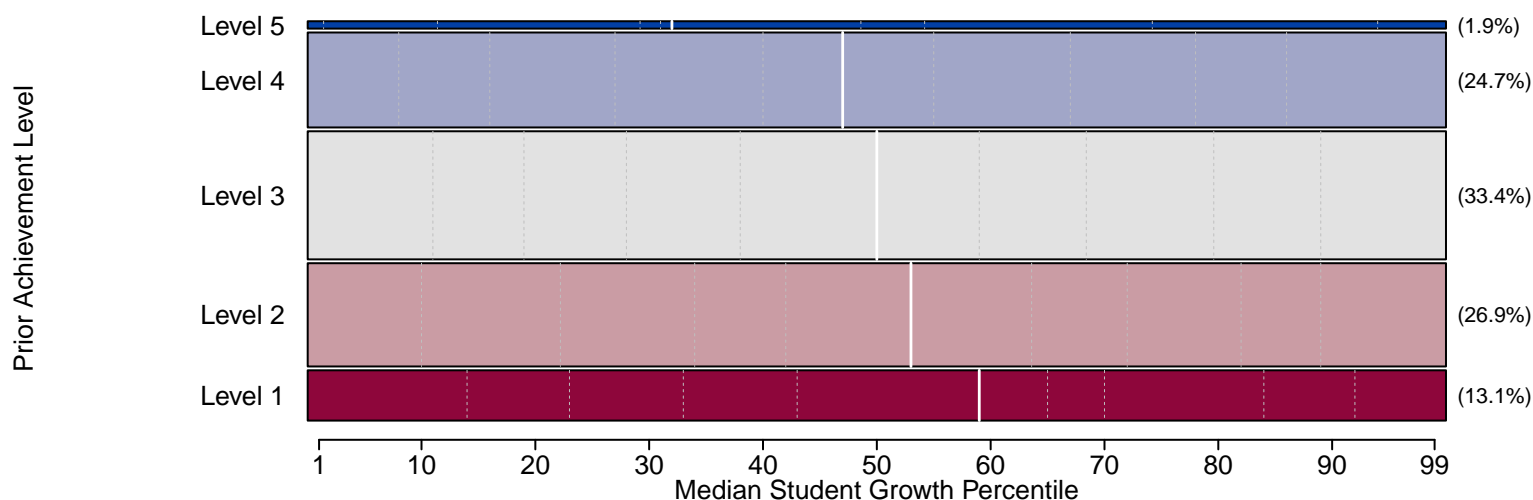# Student Growth Percentile Goodness–of–Fit Descriptives

2018–2019.1 Algebra II SGP SIMEX Ranked, Grade EOCT (N = 1,298)

SGP Deciles by Prior Achievement Level (Geometry)

Prior Achievement Level	
Level 5	(1.9%)
Level 4	(24.7%)
Level 3	(33.4%)
Level 2	(26.9%)
Level 1	(13.1%)

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:	[−4.63,−1.825)	65.6	21.9	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
	[−1.825,−1.764]	45.7	8.6	42.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 35
Highest OSS:	[2.012,2.377]	3.7	3.7	3.7	3.7	3.7	7.4	11.1	3.7	11.1	22.2	0.0	25.9	N = 27
	[2.377,6.737]	3.6	0.0	3.6	0.0	14.3	0.0	14.3	0.0	10.7	21.4	10.7	21.4	N = 28

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/[−4.1,−1.3]	9.17	10.00	6.67	8.33	4.17	17.50	8.33	13.33	4.17	18.33	(9.2%)
2nd/[−1.3,−0.92]	4.17	8.33	10.00	18.33	10.83	6.67	8.33	10.00	9.17	14.17	(9.2%)
3rd/[−0.92,−0.62]	5.74	7.38	11.48	9.02	10.66	8.20	14.75	8.20	12.30	12.30	(9.4%)
4th/[−0.62,−0.34]	9.55	9.55	6.37	14.01	8.92	8.28	8.92	14.01	14.65	5.73	(12.1%)
5th/[−0.34,−0.09]	11.00	12.00	14.00	6.00	8.00	11.00	16.00	7.00	6.00	9.00	(7.7%)
6th/[−0.09,0.22]	4.64	8.61	8.61	8.61	11.26	12.58	10.60	9.27	14.57	11.26	(11.6%)
7th/[0.22,0.55]	10.45	14.93	16.42	8.96	6.72	8.21	5.97	8.21	11.19	8.96	(10.3%)
8th/[0.55,0.87]	10.77	10.77	9.23	11.54	13.85	6.92	12.31	11.54	3.85	9.23	(10%)
9th/[0.87,1.3]	14.39	9.85	9.85	6.06	11.36	8.33	8.33	9.09	12.12	10.61	(10.2%)
10th/[1.3,3.3]	12.12	13.64	8.33	9.09	10.61	13.64	7.58	8.33	9.85	6.82	(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