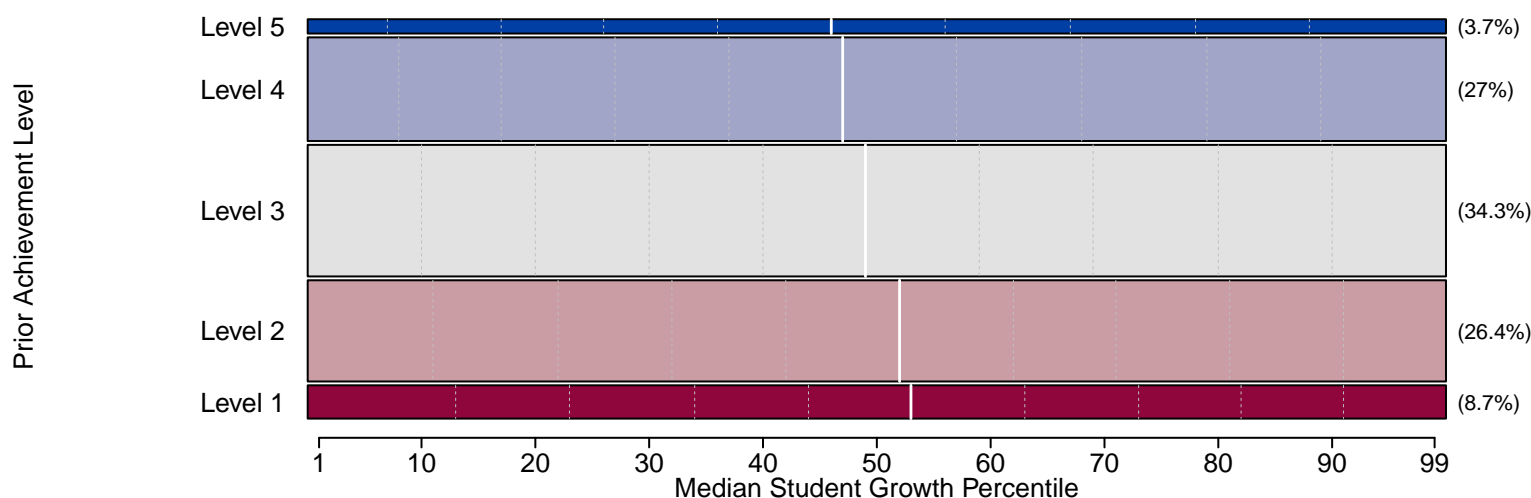# Student Growth Percentile Goodness–of–Fit Descriptives

2017–2018.2 Algebra II SGP SIMEX Ranked, Grade EOCT (N = 82,403)

SGP Deciles by Prior Achievement Level (Geometry)

Prior Achievement Level:
- Level 5 (3.7%)
- Level 4 (27%)
- Level 3 (34.3%)
- Level 2 (26.4%)
- Level 1 (8.7%)

Median Student Growth Percentile: 1, 10, 20, 30, 40, 50, 60, 70, 80, 90, 99

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]	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 = 28
	(−15,−4.63]	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 = 24
Highest OSS:	[4.468,4.743)	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	12.5	20.8	12.5	45.8	N = 24
	[4.743,8.034]	0.0	0.0	0.0	0.0	0.0	2.2	4.4	4.4	8.9	17.8	15.6	46.7	N = 45

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,−1.194)	7.44	9.01	9.67	9.47	10.58	10.62	9.93	10.45	10.95	11.88	(10%)
2nd/[−1.194,−0.833)	8.56	9.52	9.95	9.89	9.95	10.63	9.77	10.87	9.86	10.99	(9.3%)
3rd/[−0.833,−0.4974)	9.17	9.08	9.53	9.80	9.40	10.73	10.38	10.17	10.57	11.17	(10.6%)
4th/[−0.4974,−0.2117)	8.39	9.23	9.71	9.82	10.04	9.98	10.37	10.64	10.29	11.53	(9.8%)
5th/[−0.2117,0.0682)	8.85	9.94	10.34	9.93	10.30	10.20	9.66	9.98	10.64	10.15	(9.5%)
6th/[0.0682,0.3613)	9.63	10.29	10.50	10.46	10.35	9.76	9.71	9.92	9.35	10.03	(10.4%)
7th/[0.3613,0.6631)	10.15	10.29	10.33	10.10	10.09	9.75	10.01	9.43	10.18	9.68	(10.3%)
8th/[0.6631,1.013)	10.81	10.90	10.15	10.01	9.44	9.68	9.69	9.41	9.64	10.28	(10%)
9th/[1.013,1.438)	11.79	11.26	9.87	10.08	9.67	8.87	9.85	9.37	9.20	10.04	(10.1%)
10th/[1.438,5.392]	11.88	11.24	10.24	10.07	11.21	9.34	9.14	9.50	9.08	8.31	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Empirical SGP Distribution: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100