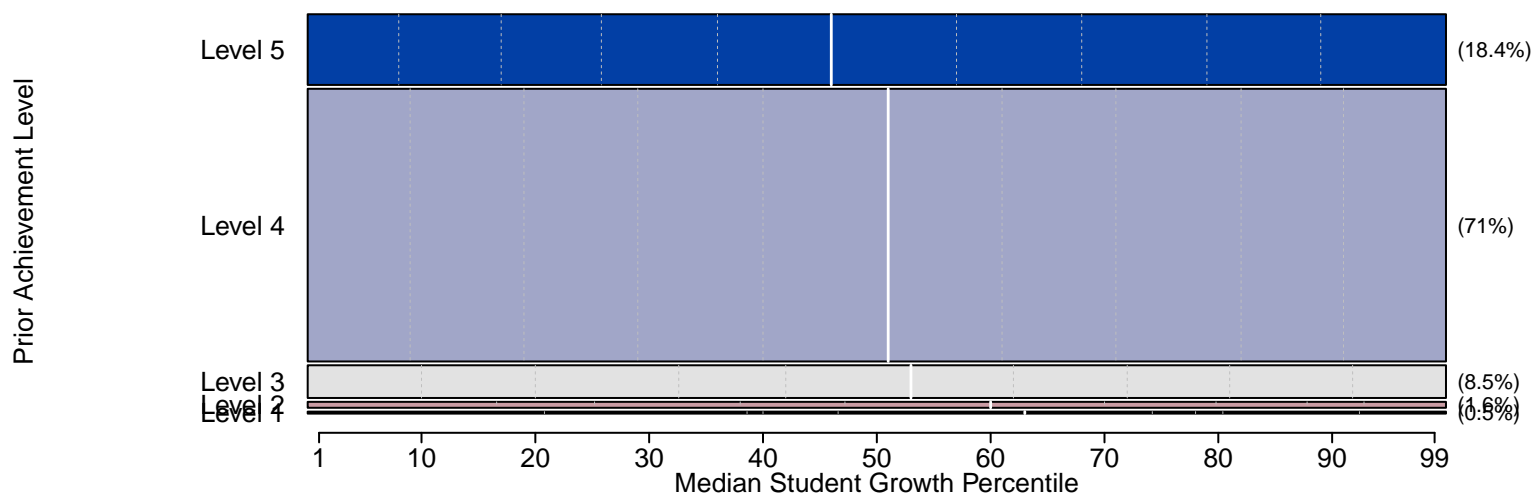# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.2 Algebra II SGP SIMEX, Grade EOCT (N = 3,677)

SGP Deciles by Prior Achievement Level (Algebra I)

Prior Achievement Level

- Level 5 (18.4%)
- Level 4 (71%)
- Level 3 (8.5%)
- Level 2 (1.6%)
- Level 1 (0.5%)

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:	[−2.12,−1.15]	21.7	26.1	34.8	4.3	4.3	8.7	0.0	0.0	0.0	0.0	0.0	0.0	N = 23
	[−1.15,−0.962]	46.4	14.3	14.3	7.1	7.1	3.6	3.6	3.6	0.0	0.0	0.0	0.0	N = 28
Highest OSS:	[3.17,3.55]	0.0	0.0	0.0	0.0	4.0	4.0	12.0	4.0	16.0	12.0	28.0	20.0	N = 25
	[3.55,5.52]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.7	19.2	11.5	57.7	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/[−2.66,0.38)	8.86	8.86	8.31	9.14	10.25	10.80	9.42	12.47	7.76	14.13	(9.8%)
2nd/[0.38,0.78)	8.00	9.87	9.60	6.67	9.33	9.87	10.93	9.60	13.07	13.07	(10.2%)
3rd/[0.78,1.03)	10.45	7.16	7.46	11.64	11.34	10.15	11.34	6.27	9.55	14.63	(9.9%)
4th/[1.03,1.24)	10.21	12.30	9.95	11.26	7.85	10.47	7.07	7.59	9.69	13.61	(9.6%)
5th/[1.24,1.44)	9.46	9.46	9.46	8.65	9.46	7.84	10.27	10.81	13.24	11.35	(10.4%)
6th/[1.44,1.64)	12.97	11.24	10.37	9.51	8.36	9.51	10.09	8.36	8.93	10.66	(9.8%)
7th/[1.64,1.85)	13.51	8.05	8.57	8.83	8.83	11.43	7.79	11.43	8.57	12.99	(10.3%)
8th/[1.85,2.11)	11.73	11.20	8.27	10.13	9.60	9.33	10.13	11.20	8.27	10.13	(9.9%)
9th/[2.11,2.47)	12.13	12.13	10.24	11.59	8.89	8.63	9.70	9.43	8.89	8.36	(10%)
10th/[2.47,6.49]	11.73	11.47	6.67	13.60	9.07	8.00	7.47	11.47	10.40	10.13	(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