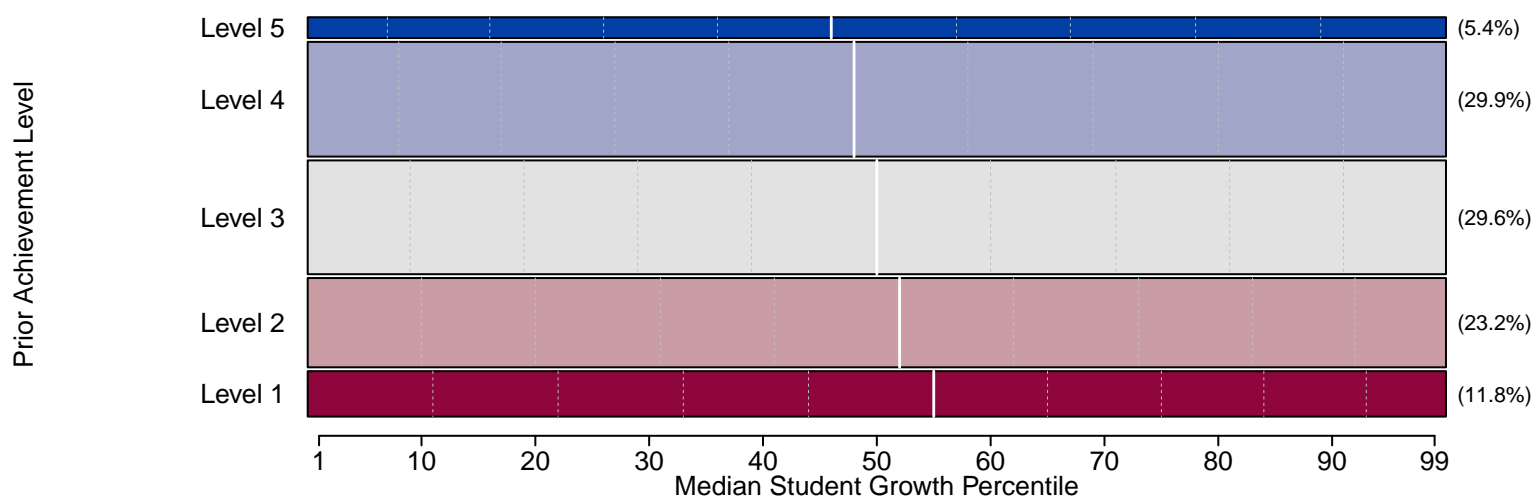# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.2 Mathematics SGP SIMEX, Grade 6 (N = 383,884)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level

Level	(%)
Level 5	(5.4%)
Level 4	(29.9%)
Level 3	(29.6%)
Level 2	(23.2%)
Level 1	(11.8%)

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 = 127
Highest OSS:	[15]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	N = 50

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,−1.55)	8.53	9.20	8.96	9.19	9.29	9.74	9.82	9.99	11.33	13.95	(9.7%)
2nd/[−1.55,−1.08)	9.30	9.34	9.28	9.29	9.41	9.58	9.50	10.26	10.70	13.34	(10%)
3rd/[−1.08,−0.746)	9.75	9.46	9.54	9.53	9.37	9.44	9.79	9.94	10.27	12.91	(10.2%)
4th/[−0.746,−0.452)	10.73	9.86	9.67	9.48	9.45	9.24	9.56	9.77	10.11	12.12	(9.4%)
5th/[−0.452,−0.152)	10.97	9.50	9.98	9.55	9.59	9.34	9.36	9.66	10.21	11.84	(10.4%)
6th/[−0.152,0.13)	10.82	10.41	9.79	9.46	9.81	9.08	9.50	9.74	9.97	11.42	(10.2%)
7th/[0.13,0.441)	11.10	10.59	9.87	9.47	9.56	9.42	9.33	9.59	9.70	11.37	(9.9%)
8th/[0.441,0.79)	11.84	10.86	10.27	9.43	9.34	8.96	8.98	9.30	9.54	11.50	(10%)
9th/[0.79,1.26)	12.45	10.61	9.95	9.40	9.23	9.48	9.33	9.46	9.41	10.68	(10.1%)
10th/[1.26,15]	12.46	10.94	10.58	9.51	9.80	9.23	9.17	9.20	9.15	9.97	(10.1%)

*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