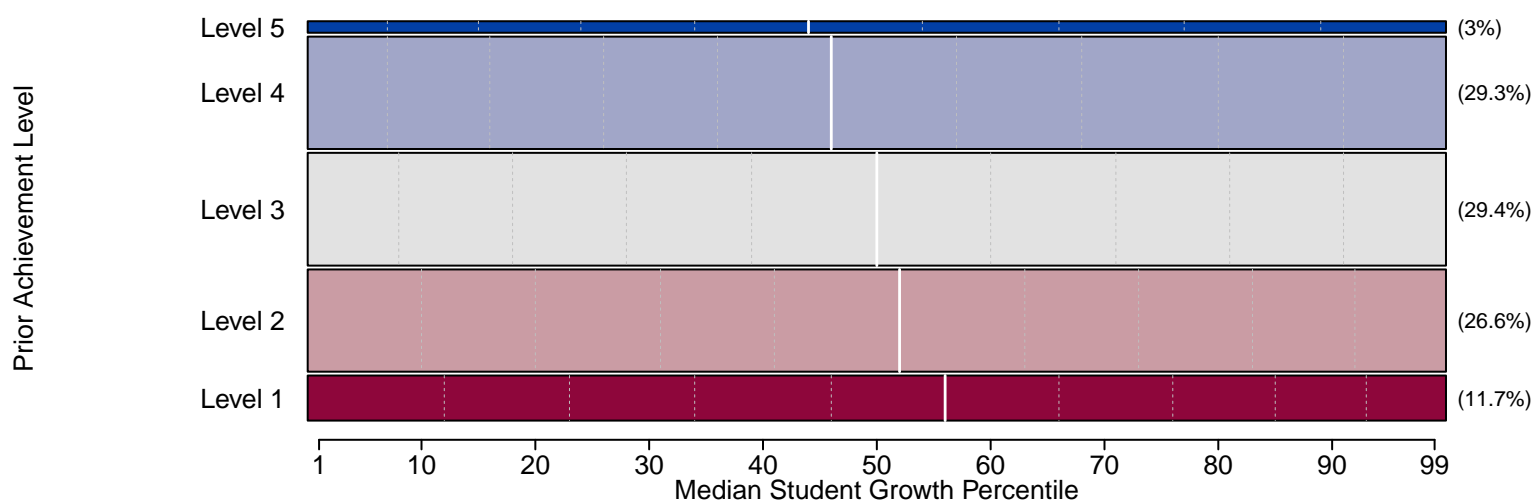# Student Growth Percentile Goodness–of–Fit Descriptives
2015–2016.2 Mathematics SGP SIMEX, Grade 5 (N = 417,351)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level

Level	Percentage
Level 5	(3%)
Level 4	(29.3%)
Level 3	(29.4%)
Level 2	(26.6%)
Level 1	(11.7%)

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

Ceiling / Floor Effects Test

Current Observed Score Extremes (Range)

Student Growth Percentile 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,−5.125]	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 = 21
	[−5.1251]	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 = 29
Highest OSS:	[4.992,5.059)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	18.2	0.0	77.3	N = 22
	[5.059,15]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	0.0	4.1	91.8	N = 49

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/[−10,−1.368)	8.05	8.78	8.77	9.20	9.01	9.88	9.89	10.51	11.82	14.10	(10%)
2nd/[−1.368,−0.9792)	9.35	8.73	9.16	9.51	9.27	9.38	9.39	10.30	10.99	13.91	(9.9%)
3rd/[−0.9792,−0.6602)	9.85	9.34	9.79	9.18	8.91	9.36	9.63	10.15	10.19	13.60	(10.2%)
4th/[−0.6602,−0.3838)	10.73	10.08	9.90	9.63	9.29	9.50	9.14	9.87	9.83	12.04	(9.9%)
5th/[−0.3838,−0.1045)	10.73	10.22	9.92	9.60	9.00	9.51	9.66	9.42	10.11	11.82	(10.1%)
6th/[−0.1045,0.1771)	11.22	10.26	10.01	9.43	9.32	9.19	9.46	9.47	9.81	11.83	(10%)
7th/[0.1771,0.4974)	11.52	10.19	9.83	9.51	9.14	9.19	9.32	9.24	9.94	12.11	(10%)
8th/[0.4974,0.8657)	12.40	10.79	10.27	9.35	9.37	8.93	8.98	9.10	9.42	11.39	(10%)
9th/[0.8657,1.36)	13.07	10.94	10.33	9.72	9.30	9.06	8.90	8.77	8.92	10.99	(10%)
10th/[1.36,15]	13.47	11.34	9.93	10.12	9.42	9.55	8.63	9.08	8.93	9.54	(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