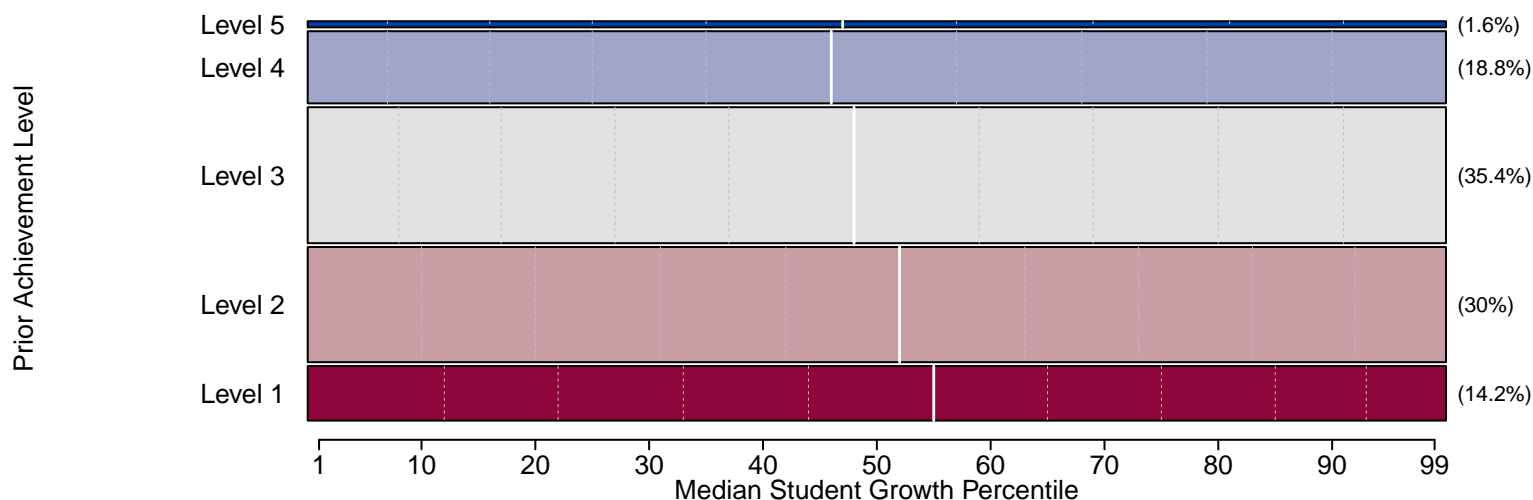# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.2 Mathematics SS SGP SIMEX, Grade 8 (N = 290,655)

SGP Deciles by Prior Achievement Level (Mathematics SS)

Prior Achievement Level:
- Level 5 (1.6%)
- Level 4 (18.8%)
- Level 3 (35.4%)
- Level 2 (30%)
- Level 1 (14.2%)

X-axis: 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:	[650]	54.6	23.3	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 4828
Highest OSS:	[850]	0.0	0.2	1.6	0.5	3.4	2.5	5.0	5.0	10.7	19.6	14.4	37.0	N = 438

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/[650,695)	6.45	11.30	9.00	8.90	9.51	9.61	9.61	9.96	11.22	14.43	(9.7%)
2nd/[695,706)	8.39	9.31	9.12	9.60	9.18	9.47	9.69	10.00	11.43	13.82	(9.5%)
3rd/[706,714)	9.04	9.64	9.13	9.10	9.31	9.61	9.68	9.72	11.06	13.71	(10.1%)
4th/[714,721)	9.61	9.50	9.88	9.21	9.32	9.66	9.93	9.70	10.47	12.72	(8.5%)
5th/[721,729)	10.87	10.25	9.90	9.71	9.50	8.94	9.27	9.55	9.82	12.19	(12%)
6th/[729,734)	11.18	10.17	9.85	9.51	9.79	9.55	9.63	9.56	9.70	11.06	(7.7%)
7th/[734,742)	12.20	10.50	10.01	9.31	9.54	9.05	9.38	9.39	9.59	11.02	(11.2%)
8th/[742,751)	12.41	11.05	10.23	9.62	9.44	9.40	9.15	8.90	8.83	10.96	(10.8%)
9th/[751,762)	12.89	11.11	9.87	9.26	9.04	8.77	8.89	9.31	9.64	11.21	(10%)
10th/[762,850]	13.22	11.24	10.25	9.90	9.41	9.30	9.00	8.96	9.04	9.68	(10.3%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (0 to 100), Empirical SGP Distribution (0 to 100)