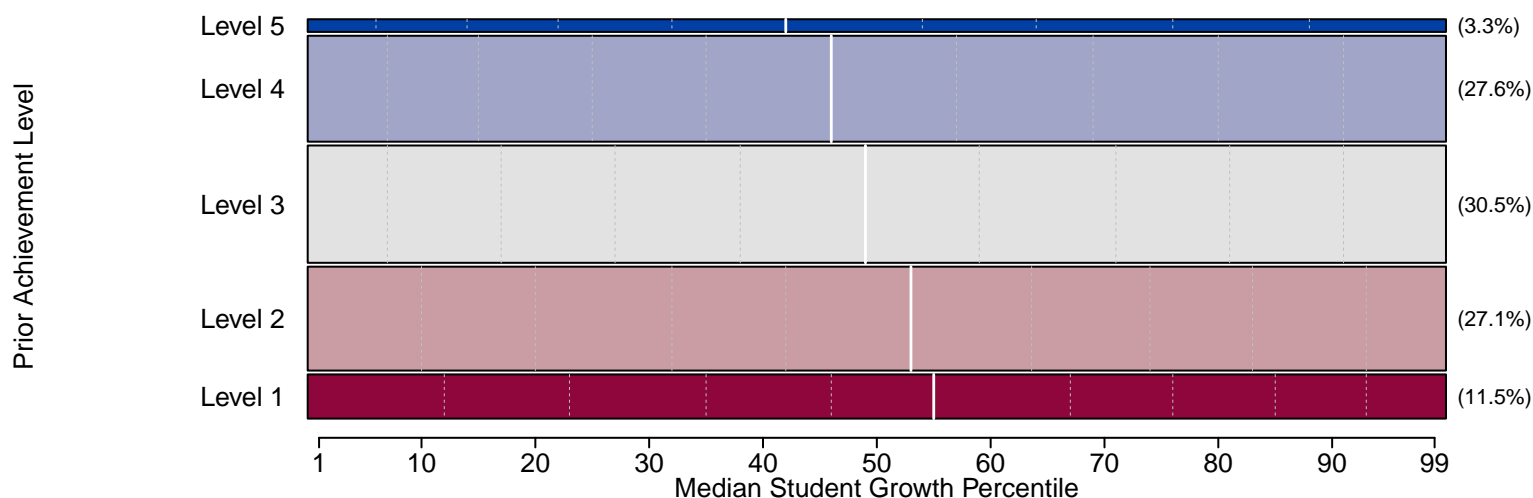# Student Growth Percentile Goodness–of–Fit Descriptives
2015–2016.2 Mathematics SS SGP SIMEX, Grade 7 (N = 391,096)

SGP Deciles by Prior Achievement Level (Mathematics SS)

Prior Achievement Level (y-axis), Median Student Growth Percentile (x-axis, 1 to 99)

- Level 5 (3.3%)
- Level 4 (27.6%)
- Level 3 (30.5%)
- Level 2 (27.1%)
- Level 1 (11.5%)

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]	79.3	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 2244
Highest OSS:	[850]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	14.0	12.8	67.4	N = 86

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/[650,697)	8.26	8.32	9.01	8.27	10.19	9.47	9.32	10.53	11.34	15.30	(9.7%)
2nd/[697,709)	8.55	8.75	9.11	9.73	9.52	9.44	9.96	9.50	10.90	14.54	(10.2%)
3rd/[709,718)	9.97	9.19	9.17	9.21	9.38	9.24	9.38	10.47	10.77	13.22	(10%)
4th/[718,726)	11.08	9.74	9.26	8.94	8.97	10.13	9.98	9.57	9.18	13.15	(9.8%)
5th/[726,734)	12.32	9.77	10.03	9.00	10.01	8.59	8.37	10.06	9.57	12.29	(10.2%)
6th/[734,742)	11.77	10.65	10.32	9.02	8.98	9.37	9.07	9.27	9.42	12.13	(9.9%)
7th/[742,750)	12.45	10.07	9.69	9.27	9.41	9.65	9.40	8.53	9.57	11.96	(9.3%)
8th/[750,760)	12.77	10.54	10.07	9.39	9.40	8.10	8.92	9.71	9.32	11.77	(10.4%)
9th/[760,773)	13.86	10.90	10.54	8.50	9.32	9.24	8.22	9.00	8.75	11.69	(10.3%)
10th/[773,850]	14.45	12.01	10.36	8.88	9.88	8.97	8.68	8.51	8.69	9.58	(10.2%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (x-axis, 0 to 100), Empirical SGP Distribution (y-axis, 0 to 100)