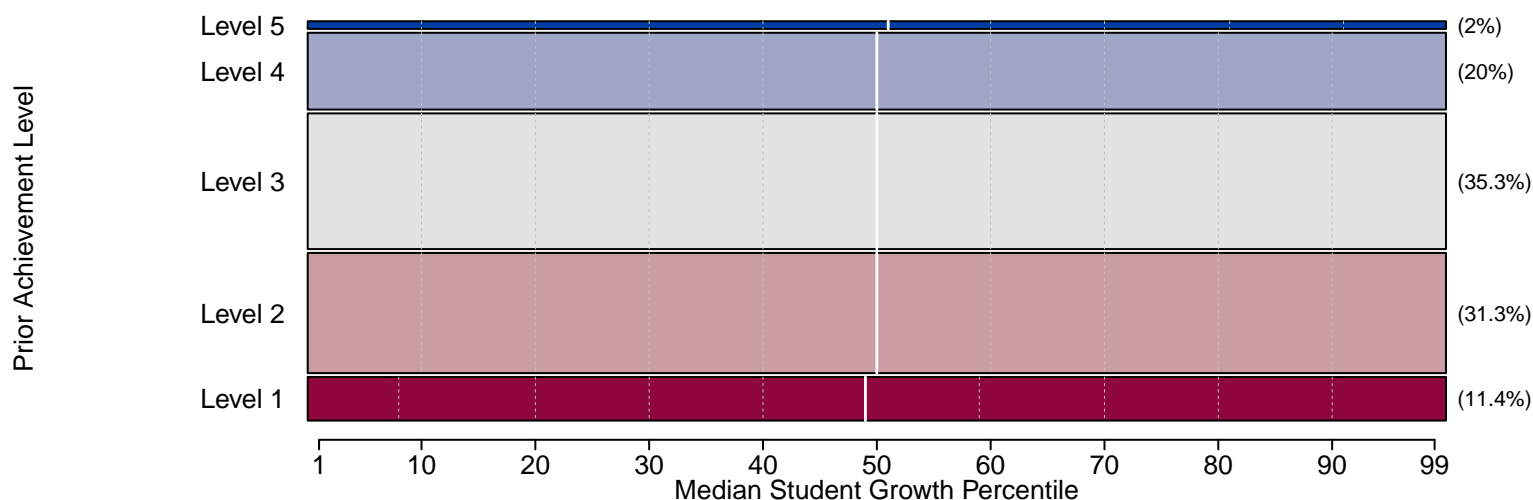# Student Growth Percentile Goodness–of–Fit Descriptives
2015–2016.2 Mathematics SS SGP, Grade 8 (N = 312,787)

SGP Deciles by Prior Achievement Level (Mathematics SS)

Prior Achievement Level

Level	(%)
Level 5	(2%)
Level 4	(20%)
Level 3	(35.3%)
Level 2	(31.3%)
Level 1	(11.4%)

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]	77.0	22.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 5720
Highest OSS:	[850]	0.0	0.0	0.0	0.0	0.0	3.2	5.4	9.9	14.1	18.5	11.0	37.9	N = 626

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/[650,698)	10.90	8.50	10.63	9.98	9.81	10.39	9.52	9.96	10.01	10.31	(9.7%)
2nd/[698,708)	9.92	9.79	10.00	9.57	10.59	9.90	9.86	10.10	9.62	10.66	(9.6%)
3rd/[708,716)	8.99	10.74	9.31	9.88	9.96	10.10	9.99	10.18	10.30	10.54	(9.6%)
4th/[716,723)	9.00	9.76	10.59	10.43	9.62	9.55	10.56	10.12	9.97	10.40	(10.7%)
5th/[723,729)	10.28	10.03	9.92	9.52	10.28	10.06	9.77	9.36	10.21	10.56	(8.9%)
6th/[729,736)	9.67	9.71	10.17	9.75	10.41	9.84	10.15	10.18	9.78	10.35	(10.7%)
7th/[736,743)	9.35	10.21	9.93	10.18	9.99	10.04	9.69	10.35	9.60	10.64	(10.2%)
8th/[743,751)	9.38	10.01	10.43	9.63	9.88	10.45	9.70	9.90	10.10	10.52	(9.8%)
9th/[751,763)	9.79	9.88	9.70	10.21	9.63	10.00	10.19	9.87	10.30	10.43	(10.4%)
10th/[763,850]	9.43	10.16	9.96	10.01	10.32	9.99	10.18	9.79	9.78	10.39	(10.4%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution