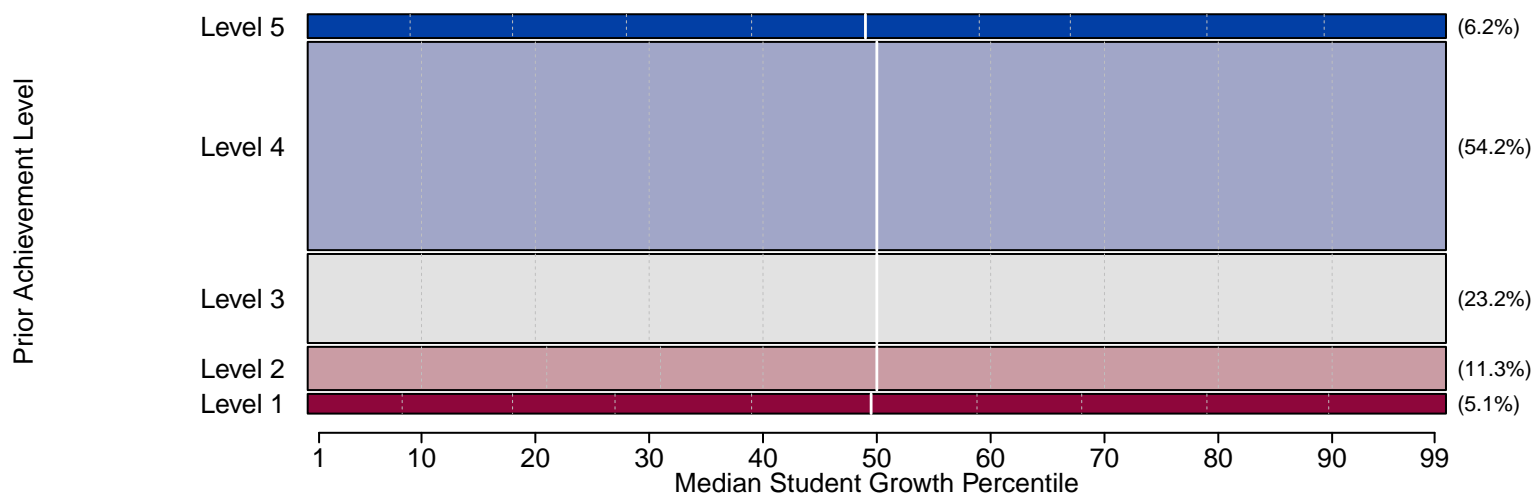# Student Growth Percentile Goodness–of–Fit Descriptives
2015–2016.2 Geometry SGP, Grade EOCT (N = 5,934)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level (y-axis): Level 5 (6.2%), Level 4 (54.2%), Level 3 (23.2%), Level 2 (11.3%), Level 1 (5.1%)

Median Student Growth Percentile (x-axis): 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: [−4.025,−2.257)	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 = 23
[−2.257,−1.945]	59.4	25.0	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 32
Highest OSS: [2.287,2.435]	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	4.5	9.1	22.7	54.5	N = 22
[2.435,3.338]	0.0	0.0	0.0	0.0	3.4	0.0	0.0	3.4	13.8	13.8	13.8	51.7	N = 29

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,−0.425)	9.78	10.29	10.46	9.78	9.78	9.95	10.79	10.12	9.61	9.44	(10%)
2nd/[−0.425,0.056)	9.95	9.61	9.27	10.62	11.13	10.62	7.59	9.78	10.29	11.13	(10%)
3rd/[0.056,0.4098)	9.80	9.80	9.63	10.47	9.29	8.95	10.98	10.64	9.80	10.64	(10%)
4th/[0.4098,0.6586)	9.40	9.23	10.74	9.56	9.40	11.24	10.07	8.89	11.41	10.07	(10%)
5th/[0.6586,0.9024)	6.94	11.51	12.86	9.81	9.81	8.63	11.00	11.00	7.61	10.83	(10%)
6th/[0.9024,1.132)	10.25	10.76	9.41	9.41	8.91	11.09	10.08	8.91	11.26	9.92	(10%)
7th/[1.132,1.357)	10.75	9.22	7.68	9.56	12.63	10.07	9.04	9.04	9.73	12.29	(9.9%)
8th/[1.357,1.614)	10.33	9.17	10.00	10.17	8.17	9.33	10.17	12.67	10.83	9.17	(10.1%)
9th/[1.614,1.977)	8.92	9.76	8.25	12.12	11.45	10.27	9.76	9.09	9.26	11.11	(10%)
10th/[1.977,4.205]	9.43	10.61	11.78	8.59	9.60	9.76	10.44	9.93	9.76	10.10	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (top axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Empirical SGP Distribution (y-axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100