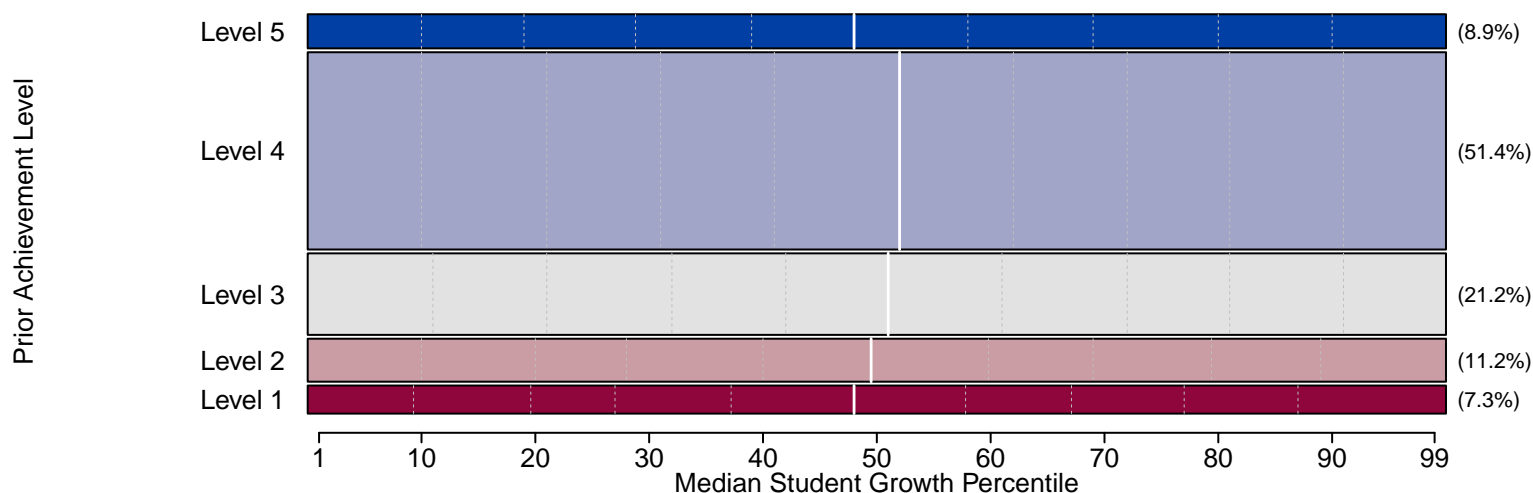# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.2 Geometry SGP, Grade EOCT (N = 3,340)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level (vertical axis):
- Level 5 (8.9%)
- Level 4 (51.4%)
- Level 3 (21.2%)
- Level 2 (11.2%)
- Level 1 (7.3%)

Median Student Growth Percentile (horizontal 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:	[−4.2,−2]	88.5	7.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[−2,−1.72]	44.4	18.5	22.2	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 27
Highest OSS:	[2,2.16]	0.0	0.0	4.2	4.2	0.0	0.0	0.0	4.2	8.3	12.5	4.2	62.5	N = 24
	[2.16,3.04]	0.0	0.0	0.0	0.0	0.0	3.8	3.8	0.0	0.0	19.2	23.1	50.0	N = 26

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/[−3.1,−0.628)	10.21	10.51	10.21	9.91	10.51	9.61	10.51	9.91	10.81	7.81	(10%)
2nd/[−0.628,−0.0736)	9.55	9.55	11.64	8.36	10.75	10.15	11.04	8.66	8.66	11.64	(10%)
3rd/[−0.0736,0.337)	8.43	7.23	8.13	12.35	7.83	12.95	7.23	13.25	11.45	11.14	(9.9%)
4th/[0.337,0.646)	9.61	12.31	9.31	9.31	12.01	8.11	11.11	7.81	9.01	11.41	(10%)
5th/[0.646,0.879)	10.75	10.42	11.07	9.12	10.75	9.77	11.40	7.82	10.42	8.47	(9.2%)
6th/[0.879,1.14)	9.38	9.09	11.36	9.09	8.52	9.38	10.23	11.08	9.38	12.50	(10.5%)
7th/[1.14,1.4)	12.16	10.03	9.12	9.12	9.42	10.33	11.55	10.64	8.21	9.42	(9.9%)
8th/[1.4,1.69)	9.51	10.37	8.36	8.36	9.80	10.37	9.22	10.95	9.80	13.26	(10.4%)
9th/[1.69,2.11)	6.51	7.10	9.17	12.72	8.28	8.88	8.88	13.02	13.02	12.43	(10.1%)
10th/[2.11,7.31]	8.68	10.18	10.48	9.88	11.08	10.18	9.58	8.08	11.08	10.78	(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 (vertical axis): 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100