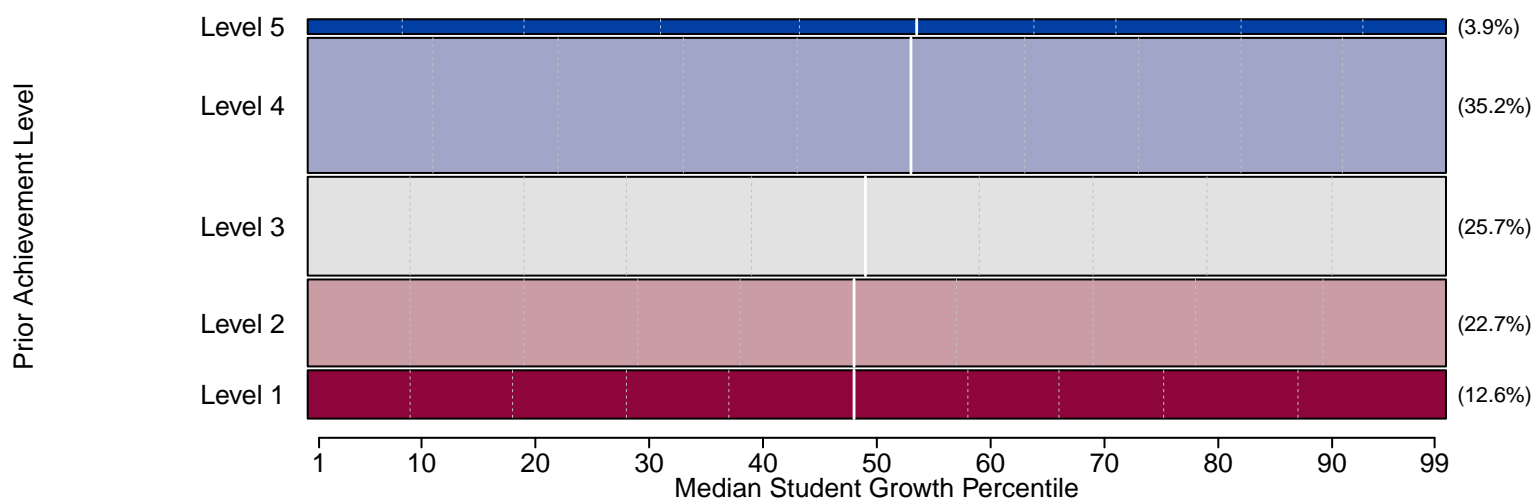# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.1 Geometry SGP, Grade EOCT (N = 3,218)

SGP Deciles by Prior Achievement Level (Algebra I)

Prior Achievement Level	Median Student Growth Percentile	
Level 5		(3.9%)
Level 4		(35.2%)
Level 3		(25.7%)
Level 2		(22.7%)
Level 1		(12.6%)

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:	[−4.31,−2.66)	88.9	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 9
	[−2.66,−2.26]	84.8	8.7	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 46
Highest OSS:	[2.07,2.22]	0.0	0.0	0.0	0.0	0.0	4.2	0.0	12.5	16.7	29.2	16.7	20.8	N = 24
	[2.22,2.99]	3.2	0.0	0.0	3.2	0.0	3.2	6.5	0.0	3.2	16.1	22.6	41.9	N = 31

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/[−4.89,−1.26)	9.66	10.28	10.59	10.59	9.97	10.28	11.84	8.72	9.66	8.41	(10%)
2nd/[−1.26,−0.87)	13.08	9.97	10.59	9.35	10.59	11.21	9.97	12.77	5.30	7.17	(10%)
3rd/[−0.87,−0.58)	10.22	9.27	12.78	9.58	9.90	8.63	6.71	8.63	11.82	12.46	(9.7%)
4th/[−0.58,−0.25)	9.82	10.43	8.90	10.74	9.82	9.82	12.58	10.12	8.28	9.51	(10.1%)
5th/[−0.25,0.05)	8.42	7.07	11.78	9.76	10.77	10.44	10.10	11.11	9.76	10.77	(9.2%)
6th/[0.05,0.38)	11.94	12.24	10.15	9.55	11.04	7.46	9.25	9.55	8.66	10.15	(10.4%)
7th/[0.38,0.74)	9.34	8.43	8.73	8.13	10.54	11.14	11.75	9.64	11.45	10.84	(10.3%)
8th/[0.74,1.09)	10.09	8.31	8.01	7.42	8.61	10.68	8.61	10.98	12.76	14.54	(9.9%)
9th/[1.09,1.59)	8.33	8.97	11.22	11.86	8.65	8.97	12.18	10.90	10.26	8.65	(10.3%)
10th/[1.59,4.4]	10.22	8.36	10.22	9.29	10.84	10.22	9.60	10.22	10.53	10.53	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution / Empirical SGP Distribution