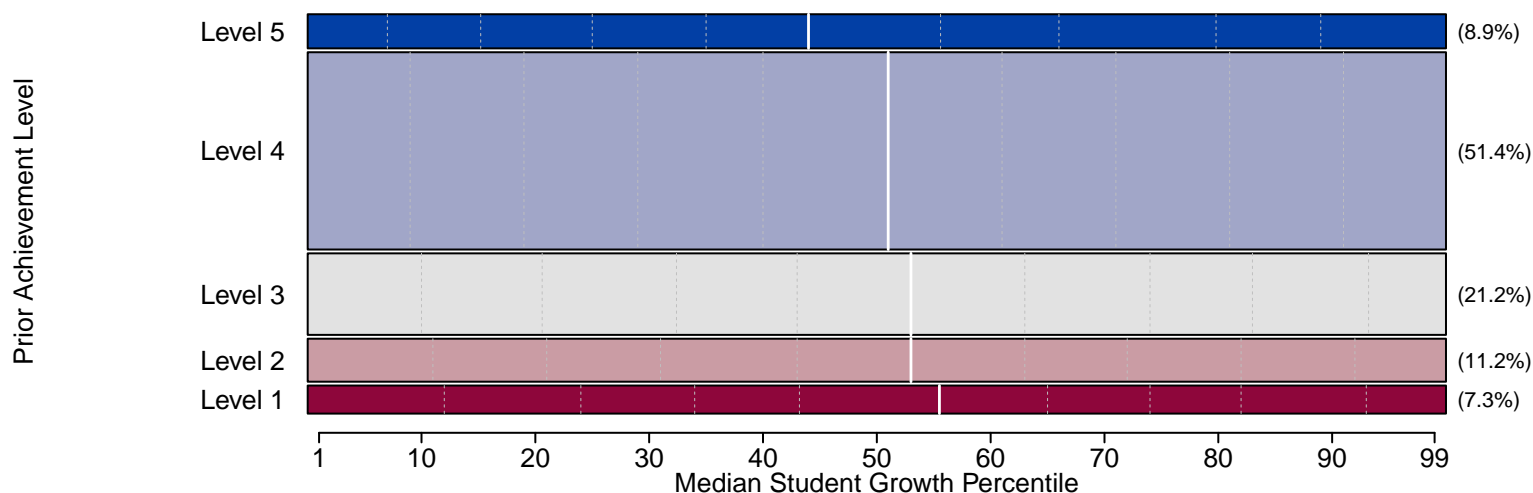# Student Growth Percentile Goodness–of–Fit Descriptives

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

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level	Median Student Growth Percentile	
Level 5		(8.9%)
Level 4		(51.4%)
Level 3		(21.2%)
Level 2		(11.2%)
Level 1		(7.3%)

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:	[−4.2,−2)	65.4	11.5	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 26
	[−2,−1.72]	37.0	18.5	22.2	7.4	14.8	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	0.0	8.3	0.0	0.0	0.0	4.2	12.5	8.3	4.2	62.5	N = 24
	[2.16,3.04]	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	0.0	34.6	7.7	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)	7.21	10.51	6.91	11.71	8.41	8.41	10.51	12.61	11.41	12.31	(10%)
2nd/[−0.628,−0.0736)	9.25	8.66	10.45	9.55	8.66	8.96	11.94	8.96	9.55	14.03	(10%)
3rd/[−0.0736,0.337)	9.04	6.63	8.43	10.84	8.43	12.05	6.33	12.05	12.35	13.86	(9.9%)
4th/[0.337,0.646)	10.21	12.31	8.41	9.61	10.81	8.71	9.31	9.01	7.51	14.11	(10%)
5th/[0.646,0.879)	11.07	10.75	9.77	9.12	8.79	10.42	12.38	7.17	11.40	9.12	(9.2%)
6th/[0.879,1.14)	9.66	9.94	10.80	8.81	7.95	9.09	10.23	9.94	9.38	14.20	(10.5%)
7th/[1.14,1.4)	13.37	10.64	7.29	10.64	9.42	9.42	10.33	11.25	8.21	9.42	(9.9%)
8th/[1.4,1.69)	10.95	10.95	8.93	7.20	10.09	10.66	8.36	10.66	8.65	13.54	(10.4%)
9th/[1.69,2.11)	7.40	7.99	12.72	10.36	8.28	7.10	9.76	11.83	12.72	11.83	(10.1%)
10th/[2.11,7.31]	11.98	10.48	11.08	11.08	8.98	7.78	10.48	6.89	11.98	9.28	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution