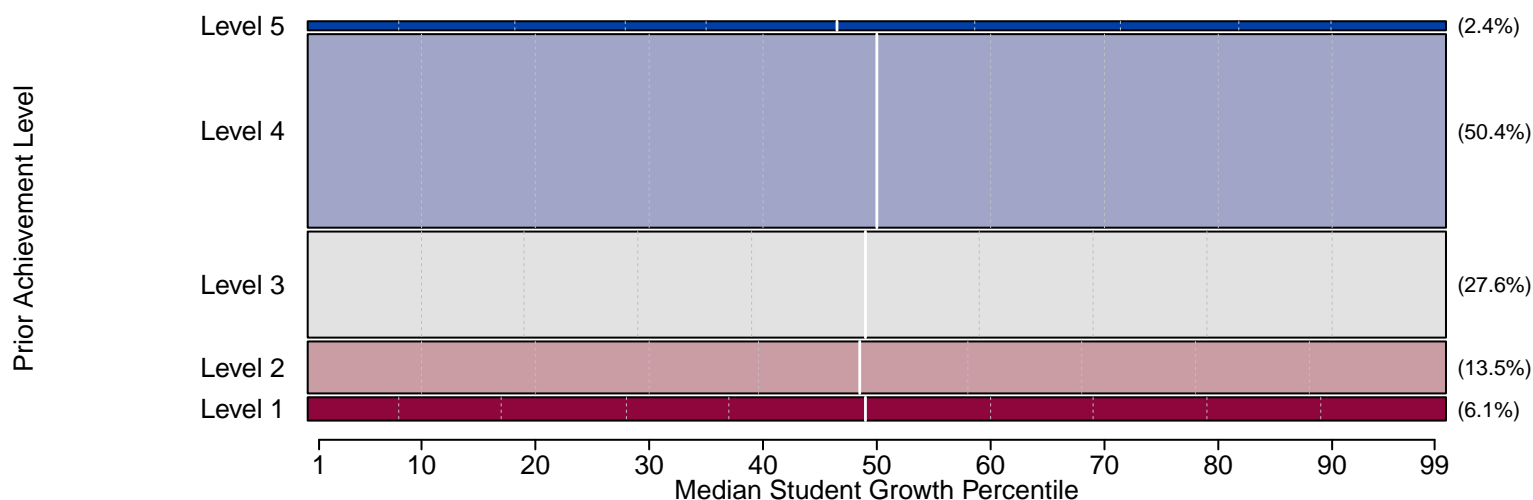# Student Growth Percentile Goodness–of–Fit Descriptives

2018–2019.1 Algebra I SGP, Grade EOCT (N = 3,472)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level (y-axis)
- Level 5 (2.4%)
- Level 4 (50.4%)
- Level 3 (27.6%)
- Level 2 (13.5%)
- Level 1 (6.1%)

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:	[−4.75,−1.902)	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 = 18
	[−1.902,−1.617]	45.5	18.2	21.8	9.1	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	N = 55
Highest OSS:	[2.375,2.563)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.1	13.6	9.1	63.6	N = 22
	[2.563,3.511]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	25.8	22.6	48.4	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/[−15,−0.6016)	11.52	10.30	9.09	10.30	10.30	9.39	10.91	9.39	9.09	9.70	(9.5%)
2nd/[−0.6016,−0.1069)	9.40	9.40	11.11	10.26	11.40	8.83	10.26	10.26	10.83	8.26	(10.1%)
3rd/[−0.1069,0.1898)	10.23	12.50	11.36	8.52	8.24	10.80	9.09	10.51	7.67	11.08	(10.1%)
4th/[0.1898,0.4823)	9.43	9.71	9.14	10.00	10.86	10.00	10.86	8.86	10.29	10.86	(10.1%)
5th/[0.4823,0.6755)	10.76	8.54	8.86	11.08	12.03	9.49	10.44	12.34	9.18	7.28	(9.1%)
6th/[0.6755,0.9285)	8.24	8.79	10.44	10.71	9.34	9.07	9.89	9.34	10.44	13.74	(10.5%)
7th/[0.9285,1.13)	9.81	10.63	8.99	8.17	10.90	12.26	9.54	9.54	10.63	9.54	(10.6%)
8th/[1.13,1.378)	8.38	10.69	13.87	10.40	7.80	8.96	9.83	9.54	9.54	10.98	(10%)
9th/[1.378,1.668)	11.49	10.06	10.06	9.77	10.92	8.62	11.21	9.48	9.77	8.62	(10%)
10th/[1.668,3.855]	9.77	9.48	9.20	10.34	10.34	10.92	8.91	10.63	10.06	10.34	(10%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (x-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