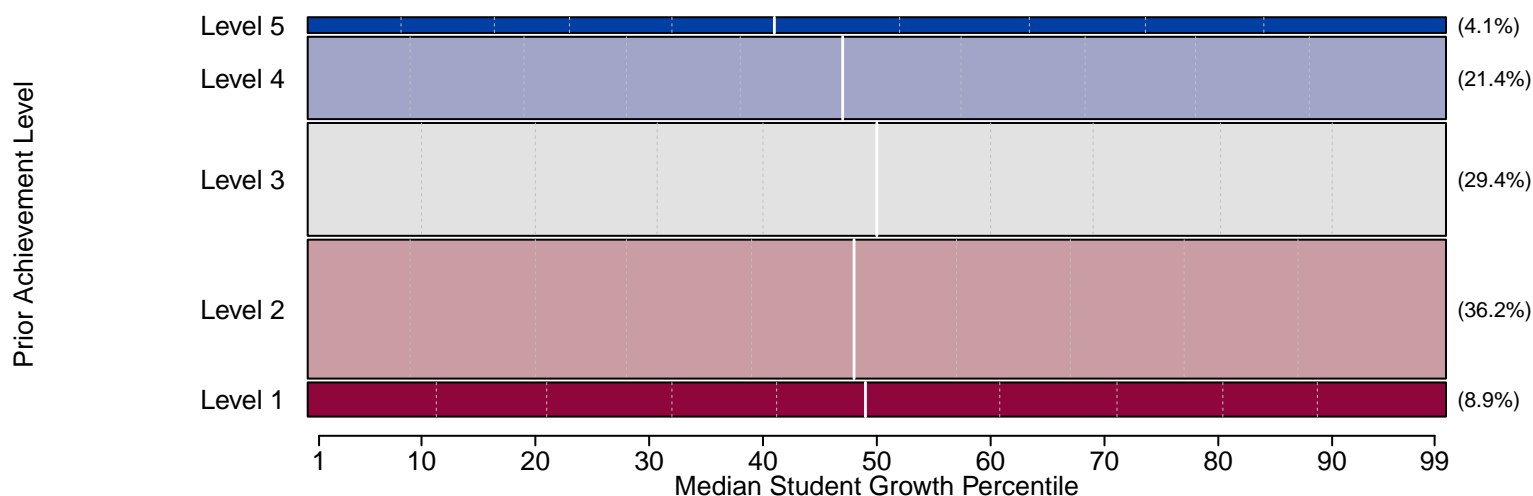# Student Growth Percentile Goodness–of–Fit Descriptives
2018–2019.1 Algebra II SGP, Grade EOCT (N = 2,518)

SGP Deciles by Prior Achievement Level (Geometry)

Prior Achievement Level:
- Level 5 (4.1%)
- Level 4 (21.4%)
- Level 3 (29.4%)
- Level 2 (36.2%)
- Level 1 (8.9%)

X-axis: 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:	[−15,−2.132]	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 = 19
	[−2.132,−2.107]	90.3	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 31
Highest OSS:	[2.843,3.385]	0.0	0.0	0.0	4.3	8.7	4.3	13.0	13.0	26.1	8.7	17.4	4.3	N = 23
	[3.385,5.071]	3.3	0.0	0.0	3.3	3.3	3.3	6.7	10.0	10.0	20.0	13.3	26.7	N = 30

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,−1.3)	8.48	10.27	8.04	12.50	11.61	8.04	8.93	11.16	11.16	9.82	(8.9%)
2nd/[−1.3,−0.97)	10.36	11.71	14.41	9.01	7.21	10.36	11.26	7.21	8.56	9.91	(8.8%)
3rd/[−0.97,−0.65)	9.36	10.03	8.70	11.04	11.71	9.70	9.70	13.04	9.36	7.36	(11.9%)
4th/[−0.65,−0.5)	10.55	6.42	12.39	9.17	9.63	10.55	11.01	11.93	8.72	9.63	(8.7%)
5th/[−0.5,−0.16)	9.49	10.17	10.17	11.19	9.49	11.53	8.47	10.85	10.17	8.47	(11.7%)
6th/[−0.16,0.13)	8.57	9.39	9.39	11.84	9.80	9.39	10.61	8.16	11.02	11.84	(9.7%)
7th/[0.13,0.47)	10.47	9.69	12.79	9.30	8.91	9.30	12.02	9.30	9.69	8.53	(10.2%)
8th/[0.47,0.87)	11.06	9.36	9.36	11.06	14.47	10.21	8.09	8.51	9.79	8.09	(9.3%)
9th/[0.87,1.4)	10.90	11.65	11.65	11.65	7.52	10.15	8.27	11.28	8.65	8.27	(10.6%)
10th/[1.4,3.5]	10.16	9.77	10.55	9.38	11.72	9.77	10.16	8.59	9.77	10.16	(10.2%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution (top axis: 0–100)
Empirical SGP Distribution (y-axis: 0–100)