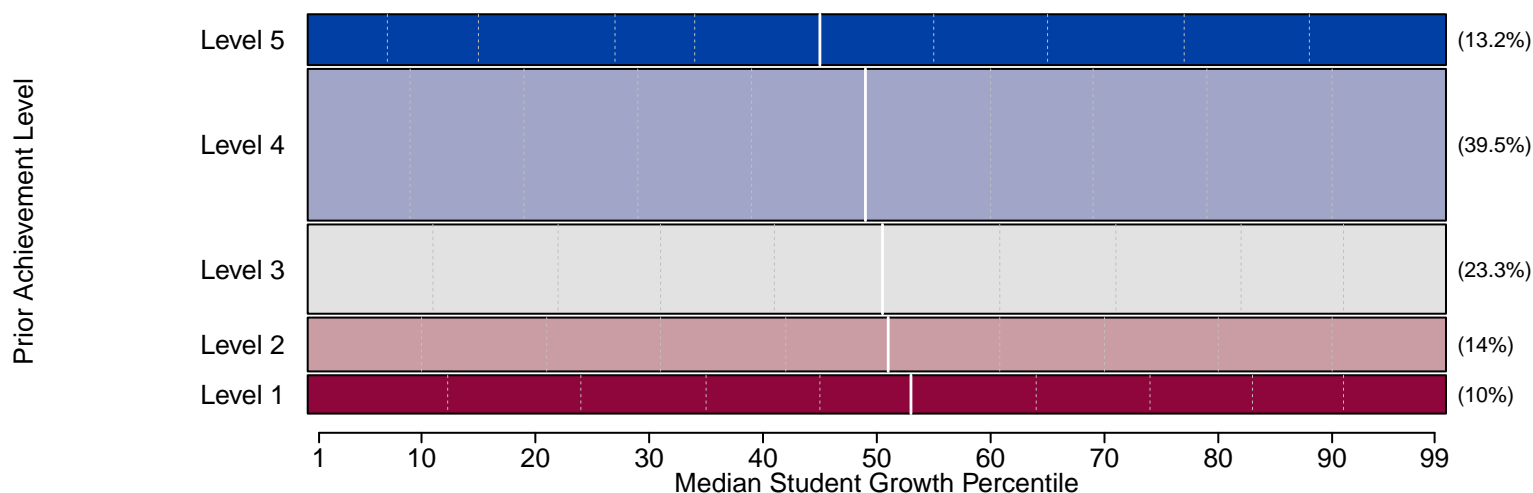# Student Growth Percentile Goodness–of–Fit Descriptives
2017–2018.1 ELA SGP SIMEX Ranked, Grade 9 (N = 3,845)

SGP Deciles by Prior Achievement Level (ELA)

Prior Achievement Level:
- Level 5 (13.2%)
- Level 4 (39.5%)
- Level 3 (23.3%)
- Level 2 (14%)
- Level 1 (10%)

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:	[−3.998,−2.3)	77.3	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 22
	[−2.3,−2.155)	30.3	21.2	42.4	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 33
Highest OSS:	[2.318,2.565)	0.0	0.0	0.0	0.0	0.0	3.7	0.0	3.7	18.5	18.5	25.9	29.6	N = 27
	[2.565,3.913]	0.0	0.0	0.0	0.0	3.6	0.0	0.0	7.1	3.6	17.9	7.1	60.7	N = 28

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/[−3.304,−1.268)	7.55	9.11	8.59	10.16	9.38	10.68	10.94	9.64	13.02	10.94	(10%)
2nd/[−1.268,−0.7171)	8.33	8.85	8.33	9.38	12.76	10.94	8.85	11.46	9.64	11.46	(10%)
3rd/[−0.7171,−0.3241)	10.11	11.48	8.47	13.11	9.02	8.74	11.75	9.56	9.29	8.47	(9.5%)
4th/[−0.3241,−0.0323)	9.79	8.73	10.05	10.05	8.47	11.64	7.67	11.38	10.32	11.90	(9.8%)
5th/[−0.0323,0.2617)	7.32	9.51	11.95	10.73	8.05	9.51	8.29	10.00	12.44	12.20	(10.7%)
6th/[0.2617,0.5479)	11.20	9.07	9.87	8.00	9.87	9.87	10.67	10.13	10.67	10.67	(9.8%)
7th/[0.5479,0.8337)	11.26	10.99	8.38	9.42	11.78	10.21	10.99	8.90	8.12	9.95	(9.9%)
8th/[0.8337,1.18)	9.56	9.04	11.11	9.82	10.59	9.82	10.34	11.11	7.24	11.37	(10.1%)
9th/[1.18,1.632)	10.08	11.63	11.89	8.01	10.34	10.34	9.04	8.79	11.63	8.27	(10.1%)
10th/[1.632,3.771]	12.24	11.99	9.44	11.22	10.20	8.16	11.48	8.16	7.91	9.18	(10.2%)

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

QQ–Plot: Student Growth Percentiles

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