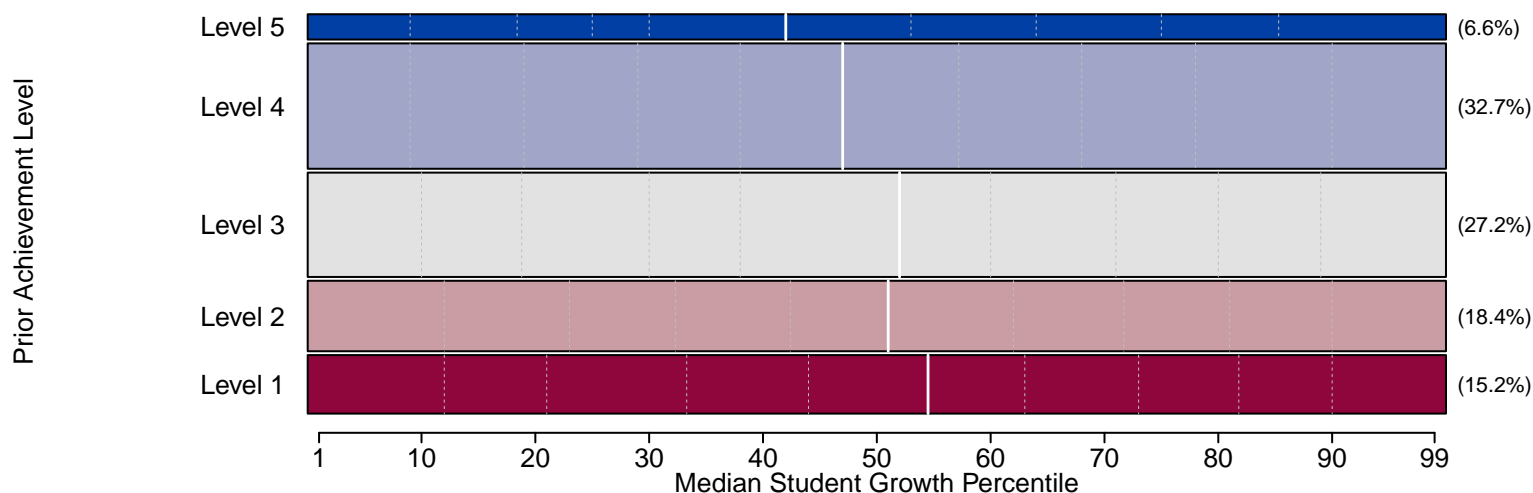# Student Growth Percentile Goodness–of–Fit Descriptives

2017–2018.1 ELA SGP SIMEX Ranked, Grade 10 (N = 2,245)

SGP Deciles by Prior Achievement Level (ELA)

Prior Achievement Level	
Level 5	(6.6%)
Level 4	(32.7%)
Level 3	(27.2%)
Level 2	(18.4%)
Level 1	(15.2%)

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: [−3.487,−2.314)	90.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 20
[−2.314,−2.141]	28.6	34.3	31.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N = 35
Highest OSS: [2.074,2.342)	0.0	0.0	0.0	0.0	4.8	19.0	4.8	9.5	9.5	23.8	9.5	19.0	N = 21
[2.342,3.921]	0.0	3.3	0.0	0.0	0.0	3.3	6.7	16.7	13.3	20.0	6.7	30.0	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/[−4.5,−1.4)	9.18	9.18	10.63	5.80	15.46	8.70	9.18	10.63	12.08	9.18	(9.8%)
2nd/[−1.4,−0.95)	6.69	8.79	10.88	5.44	9.21	12.55	8.37	15.06	10.46	12.55	(10.2%)
3rd/[−0.95,−0.58)	7.69	9.05	8.14	12.22	7.69	11.31	14.03	6.79	13.57	9.50	(9.7%)
4th/[−0.58,−0.26)	11.84	7.46	10.53	11.84	8.33	9.21	7.89	12.28	8.77	11.84	(10.2%)
5th/[−0.26,−0.01)	8.84	12.56	9.77	10.70	8.84	11.63	8.37	7.44	11.16	10.70	(10.1%)
6th/[−0.01,0.27)	9.57	11.74	9.57	9.57	7.83	11.30	9.13	8.70	14.35	8.26	(10%)
7th/[0.27,0.58)	9.69	6.61	10.57	12.78	11.01	11.45	11.89	11.45	5.73	8.81	(9.9%)
8th/[0.58,0.9)	8.89	11.56	8.89	10.22	10.22	10.22	7.11	9.78	9.33	13.78	(10%)
9th/[0.9,1.3)	11.26	10.36	11.26	11.71	9.91	8.56	10.81	9.91	5.86	10.36	(9.9%)
10th/[1.3,3.8]	12.99	10.82	14.72	6.49	12.12	8.23	9.52	9.52	7.79	7.79	(10.3%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Empirical SGP Distribution: 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100