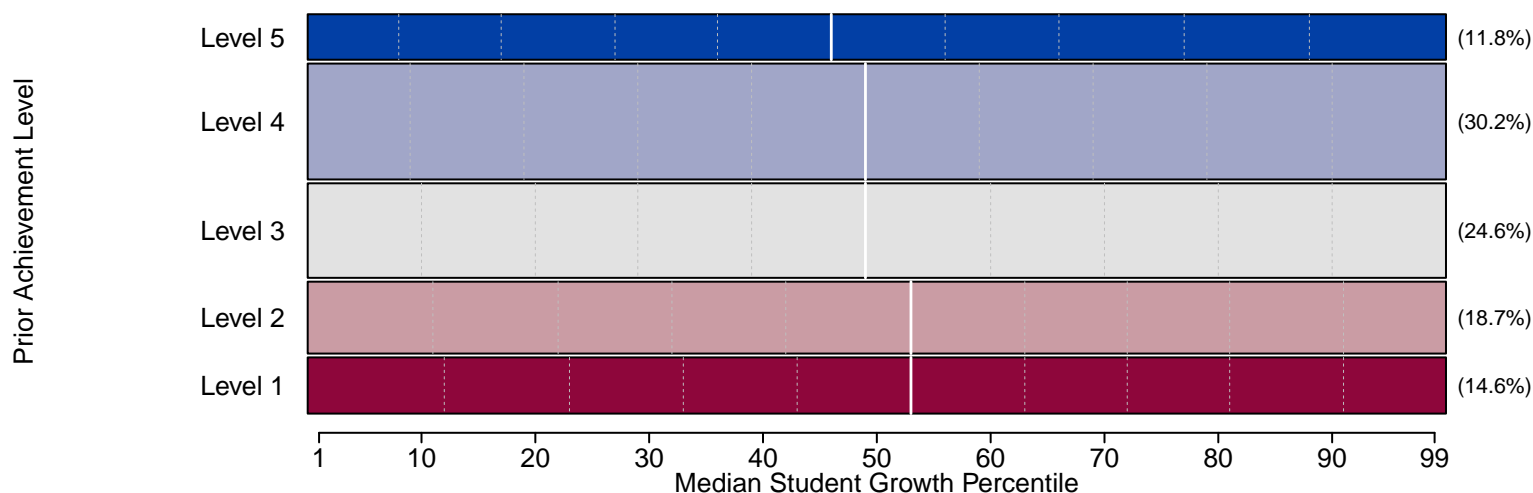# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.2 ELA SGP SIMEX Ranked, Grade 8 (N = 375,306)

SGP Deciles by Prior Achievement Level (ELA)

Prior Achievement Level (y-axis) vs Median Student Growth Percentile (x-axis: 1, 10, 20, 30, 40, 50, 60, 70, 80, 90, 99)

- Level 5 (11.8%)
- Level 4 (30.2%)
- Level 3 (24.6%)
- Level 2 (18.7%)
- Level 1 (14.6%)

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,−4.79)	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 = 23
	[−4.79,−4.14]	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 = 27
Highest OSS:	[4.47,4.88]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	9.1	81.8	N = 22
	[4.88,8.74]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	94.3	N = 35

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,−1.49)	7.62	9.12	9.48	9.62	10.24	10.52	10.65	10.80	10.73	11.22	(10%)
2nd/[−1.49,−0.983)	8.15	8.92	9.48	9.62	10.05	10.06	10.31	10.58	11.04	11.79	(9.9%)
3rd/[−0.983,−0.602)	8.60	9.40	9.52	9.57	9.89	9.96	10.19	10.81	10.75	11.32	(10%)
4th/[−0.602,−0.303)	9.40	10.14	9.92	9.99	9.88	10.18	9.74	10.17	9.86	10.73	(9.7%)
5th/[−0.303,−0.0001)	9.41	10.44	10.24	10.34	10.03	9.75	9.75	9.49	9.85	10.69	(10.4%)
6th/[−0.0001,0.265)	9.64	10.17	10.03	10.05	9.75	10.00	9.91	10.09	9.93	10.42	(9.7%)
7th/[0.265,0.566)	10.00	10.03	10.01	9.87	9.73	9.80	10.12	9.66	9.99	10.76	(10%)
8th/[0.566,0.91)	10.28	10.16	9.69	10.31	9.92	10.17	9.43	9.99	9.86	10.19	(10.3%)
9th/[0.91,1.37)	10.79	11.05	10.25	10.21	10.06	9.91	9.64	9.33	9.18	9.58	(9.9%)
10th/[1.37,15]	11.31	11.17	10.72	10.36	10.30	9.87	9.32	9.26	8.94	8.76	(10.1%)

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

QQ–Plot: Student Growth Percentiles

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