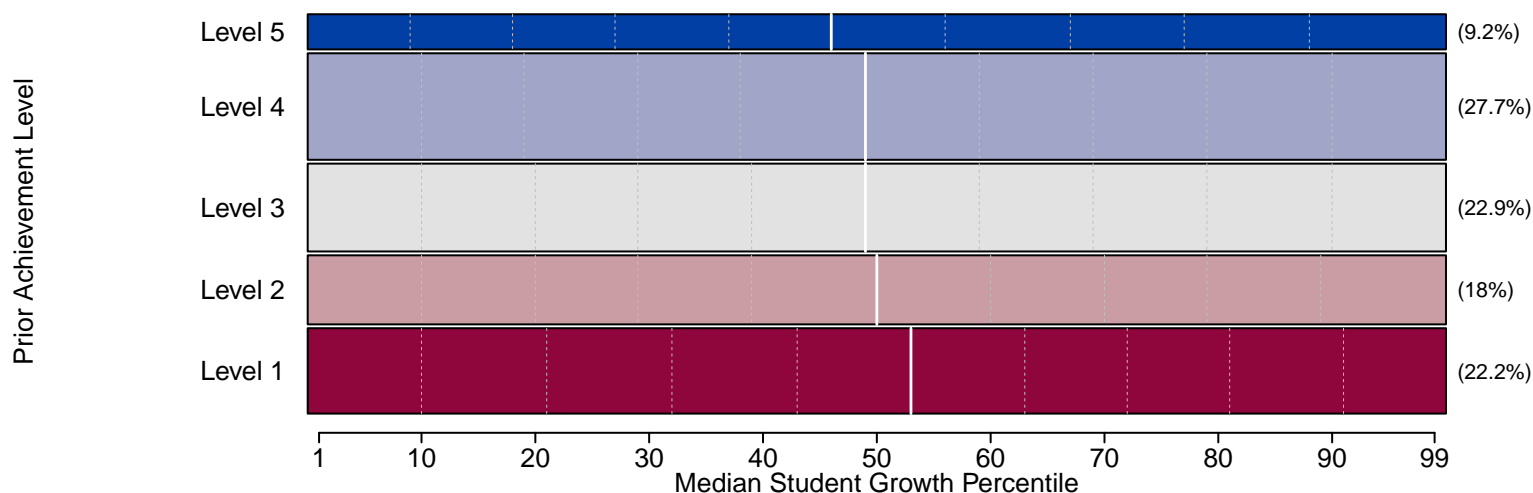# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.2 ELA SGP SIMEX Ranked, Grade 11 (N = 95,236)

SGP Deciles by Prior Achievement Level (ELA)

Prior Achievement Level	
Level 5	(9.2%)
Level 4	(27.7%)
Level 3	(22.9%)
Level 2	(18%)
Level 1	(22.2%)

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:	[−15,−5.02)	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 = 26
	[−5.02,−4.02]	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 = 29
Highest OSS:	[3.68,3.94]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	19.2	15.4	53.8	N = 26
	[3.94,5.23]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.8	17.2	62.1	N = 29

Student Growth Percentile Range

Prior Scale Score Decile/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,−1.44)	8.80	8.77	8.81	8.45	10.61	10.22	11.26	11.66	11.21	10.21	(9.5%)
2nd/[−1.44,−0.974)	9.32	9.54	9.69	9.46	9.36	9.95	10.63	9.53	10.60	11.91	(10.3%)
3rd/[−0.974,−0.605)	9.25	9.72	9.95	10.06	9.54	9.90	9.75	10.79	10.55	10.50	(10.2%)
4th/[−0.605,−0.318)	9.91	10.38	10.55	9.68	9.88	10.41	9.80	10.06	9.44	9.88	(9.7%)
5th/[−0.318,−0.0646)	10.10	10.25	10.22	10.83	10.16	9.82	10.11	9.38	9.90	9.22	(9.8%)
6th/[−0.0646,0.186)	9.70	9.73	10.26	10.08	10.50	9.99	9.89	9.49	9.79	10.56	(10.2%)
7th/[0.186,0.467)	9.99	11.02	9.76	9.76	9.64	9.78	9.99	9.57	9.98	10.50	(10.2%)
8th/[0.467,0.783)	9.65	10.55	9.96	10.52	10.03	10.52	9.60	9.19	9.15	10.84	(9.8%)
9th/[0.783,1.23)	10.09	10.71	10.50	10.42	10.03	9.68	9.64	9.92	9.50	9.51	(10.2%)
10th/[1.23,6.36]	10.59	10.88	11.05	10.24	10.76	10.01	9.20	9.47	8.82	8.99	(10.1%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution