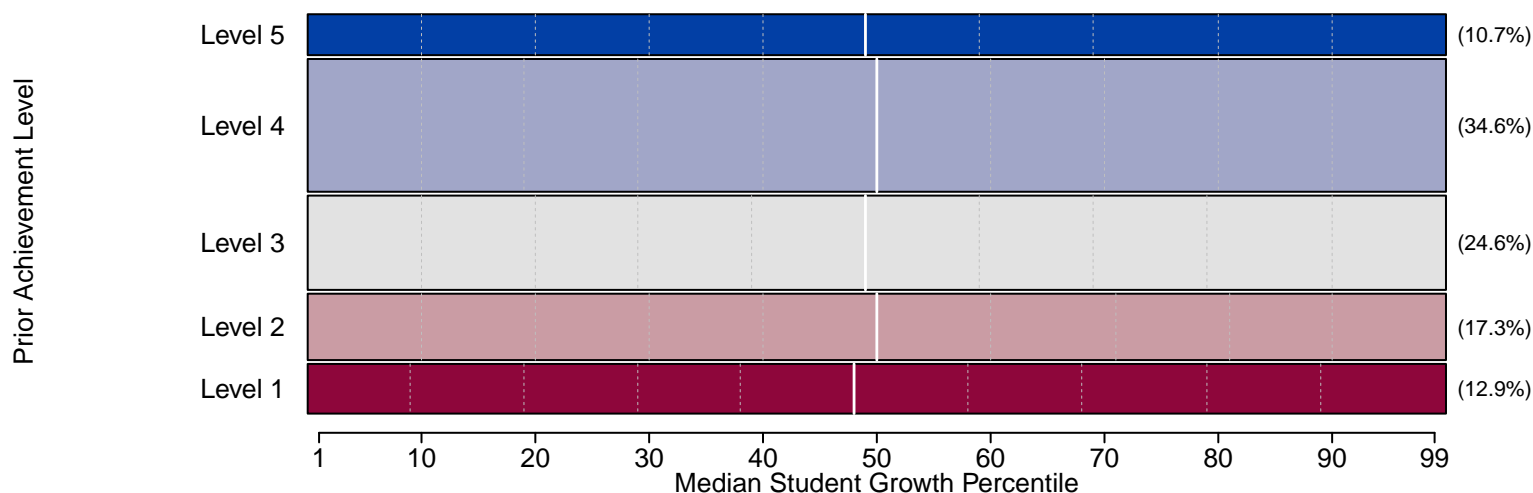# Student Growth Percentile Goodness–of–Fit Descriptives

2016–2017.2 ELA SGP, Grade 10 (N = 103,452)

SGP Deciles by Prior Achievement Level (ELA)

Prior Achievement Level

Level	Median Student Growth Percentile	Percent
Level 5		(10.7%)
Level 4		(34.6%)
Level 3		(24.6%)
Level 2		(17.3%)
Level 1		(12.9%)

Median Student Growth Percentile: 1, 10, 20, 30, 40, 50, 60, 70, 80, 90, 99

Ceiling / Floor Effects Test

Current Observed Score Extremes (Range)

Student Growth Percentile Range

	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,−4.48)	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
	[−4.48,−3.92]	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 = 28
Highest OSS:	[3.42,3.56]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	87.0	N = 23
	[3.56,4.87]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	9.8	85.4	N = 41

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	Percent
1st/[−15,−1.35)	10.02	10.20	10.52	10.21	10.42	10.39	9.94	9.46	9.19	9.66	(9.6%)
2nd/[−1.35,−0.831)	9.89	10.32	10.03	9.94	9.62	9.80	9.63	9.60	10.61	10.55	(10.3%)
3rd/[−0.831,−0.443)	9.56	10.00	9.96	10.04	9.60	9.82	9.76	10.42	9.92	10.92	(9.9%)
4th/[−0.443,−0.119)	10.18	10.38	10.12	10.05	10.36	9.90	10.11	9.44	9.54	9.92	(10%)
5th/[−0.119,0.158)	9.55	9.91	10.26	10.42	9.96	10.00	10.32	9.79	9.55	10.24	(10%)
6th/[0.158,0.419)	9.80	9.99	9.75	10.11	10.06	9.72	9.89	9.84	10.19	10.66	(9.8%)
7th/[0.419,0.717)	10.29	10.39	9.85	9.67	9.41	9.97	9.84	9.99	10.21	10.38	(10.1%)
8th/[0.717,1.06)	10.18	9.65	10.25	9.96	10.17	10.10	10.00	9.55	9.82	10.31	(10%)
9th/[1.06,1.55)	9.35	10.59	10.10	10.04	9.79	9.83	9.94	10.09	9.68	10.58	(10.2%)
10th/[1.55,5.66]	9.70	9.89	10.02	10.14	10.22	10.06	9.86	9.79	10.07	10.25	(10%)

*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