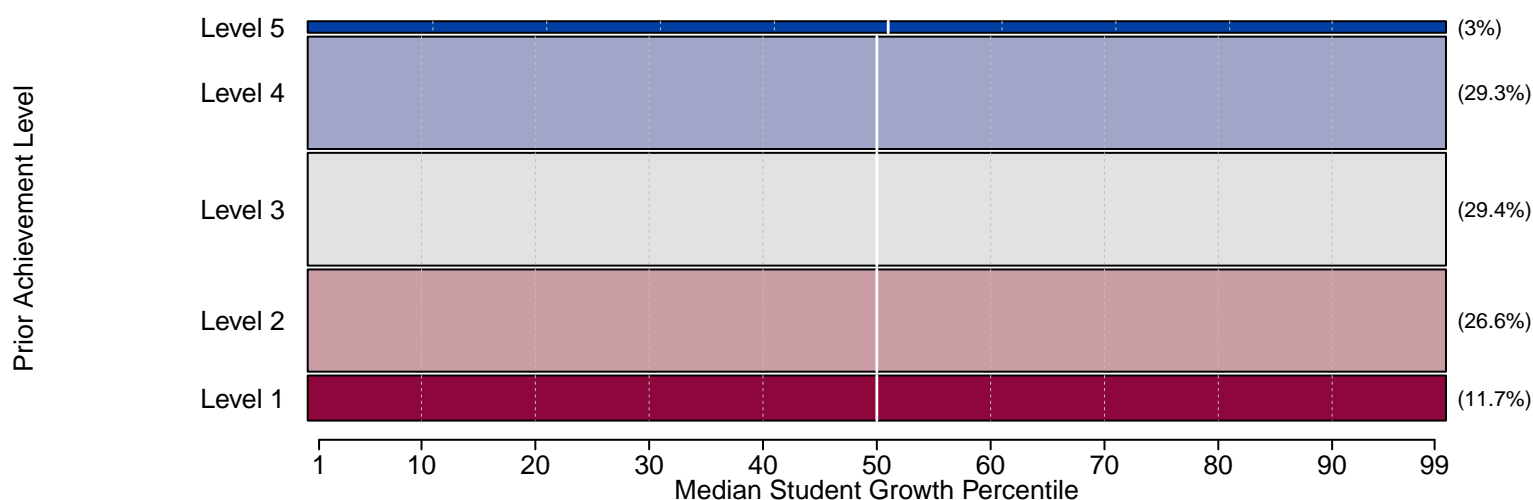# Student Growth Percentile Goodness–of–Fit Descriptives

2015–2016.2 Mathematics SGP, Grade 5 (N = 417,351)

SGP Deciles by Prior Achievement Level (Mathematics)

Prior Achievement Level

Level	(%)
Level 5	(3%)
Level 4	(29.3%)
Level 3	(29.4%)
Level 2	(26.6%)
Level 1	(11.7%)

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

		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,−5.125]	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 = 21
	[−5.1251]	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:	[4.992,5.059)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2	4.5	77.3	N = 22
	[5.059,15]	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	2.0	93.9	N = 49

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/[−10,−1.368)	9.62	10.11	10.07	10.02	10.04	10.10	10.05	9.94	9.88	10.16	(10%)
2nd/[−1.368,−0.9792)	9.36	9.91	9.92	10.01	10.09	9.83	10.07	10.04	10.12	10.67	(9.9%)
3rd/[−0.9792,−0.6602)	9.45	9.79	10.00	9.96	9.65	9.99	10.04	9.95	10.05	11.12	(10.2%)
4th/[−0.6602,−0.3838)	9.69	10.24	9.96	10.13	10.21	10.05	9.73	10.05	9.79	10.15	(9.9%)
5th/[−0.3838,−0.1045)	9.36	10.08	9.99	9.90	10.10	9.98	10.15	9.93	10.28	10.22	(10.1%)
6th/[−0.1045,0.1771)	9.51	9.82	10.13	9.89	10.08	10.02	9.96	10.17	9.97	10.44	(10%)
7th/[0.1771,0.4974)	9.37	9.73	9.81	10.06	9.84	10.06	10.15	9.94	10.16	10.90	(10%)
8th/[0.4974,0.8657)	9.54	10.29	10.16	10.03	9.96	10.07	9.86	9.95	9.77	10.36	(10%)
9th/[0.8657,1.36)	9.78	10.17	10.23	10.13	9.86	9.81	10.01	9.79	9.71	10.52	(10%)
10th/[1.36,15]	9.35	9.87	9.76	9.87	10.18	10.07	9.99	10.21	10.27	10.42	(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