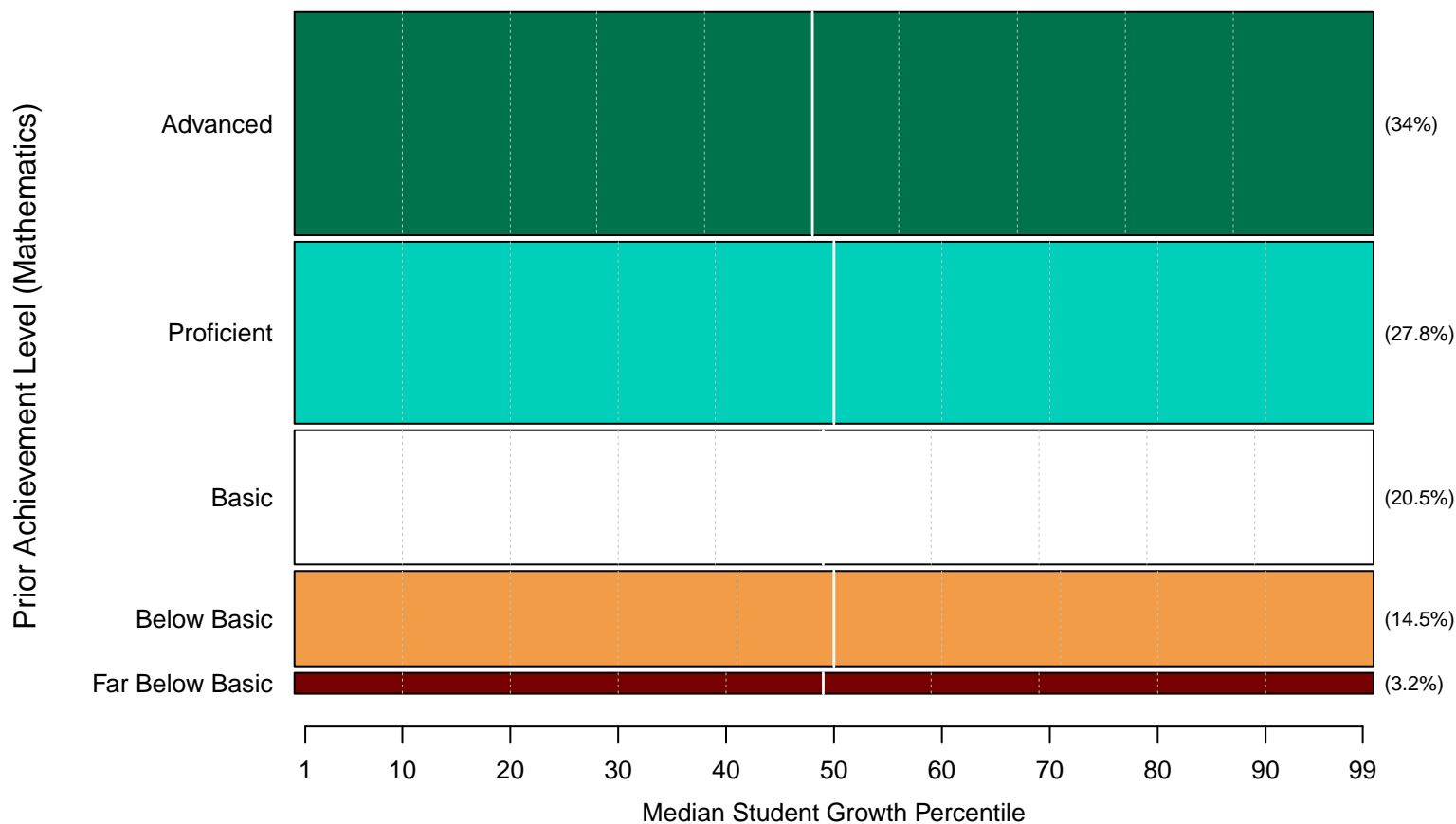# Student Growth Percentile Goodness–of–Fit Descriptives
2010 Mathematics SGP, Grade 4 (N = 45,044)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

Level	%
Advanced	(34%)
Proficient	(27.8%)
Basic	(20.5%)
Below Basic	(14.5%)
Far Below Basic	(3.2%)

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

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/[152,274)	9.69	9.99	10.24	9.97	10.43	9.67	10.36	9.76	9.90	9.99	(9.7%)
2nd/[274,305)	9.49	9.83	9.92	10.56	8.50	10.63	8.91	9.87	10.70	11.59	(9.7%)
3rd/[305,329)	9.27	11.05	9.87	9.24	10.28	9.89	10.40	11.00	9.38	9.61	(9.6%)
4th/[329,351)	10.14	9.22	10.33	10.14	12.06	9.18	10.67	9.51	9.27	9.49	(9.2%)
5th/[351,375)	9.42	9.62	10.07	9.68	9.74	10.23	9.91	10.17	9.77	11.39	(11.2%)
6th/[375,398)	9.80	10.25	10.13	9.56	7.93	11.00	10.04	9.61	10.34	11.33	(9.4%)
7th/[398,425)	9.65	10.88	8.97	12.39	8.04	10.38	9.80	9.51	10.81	9.57	(10.7%)
8th/[425,450)	9.18	9.47	13.34	5.16	15.24	8.72	9.30	13.89	7.20	8.49	(7.7%)
9th/[450,516)	9.80	10.38	11.27	7.79	9.09	14.54	9.27	10.13	8.22	9.51	(12.5%)
10th/[516,600]	11.07	9.48	11.59	12.46	17.30	5.80	7.52	13.59	6.34	4.86	(10.2%)

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

QQ–Plot: Student Growth Percentiles

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

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