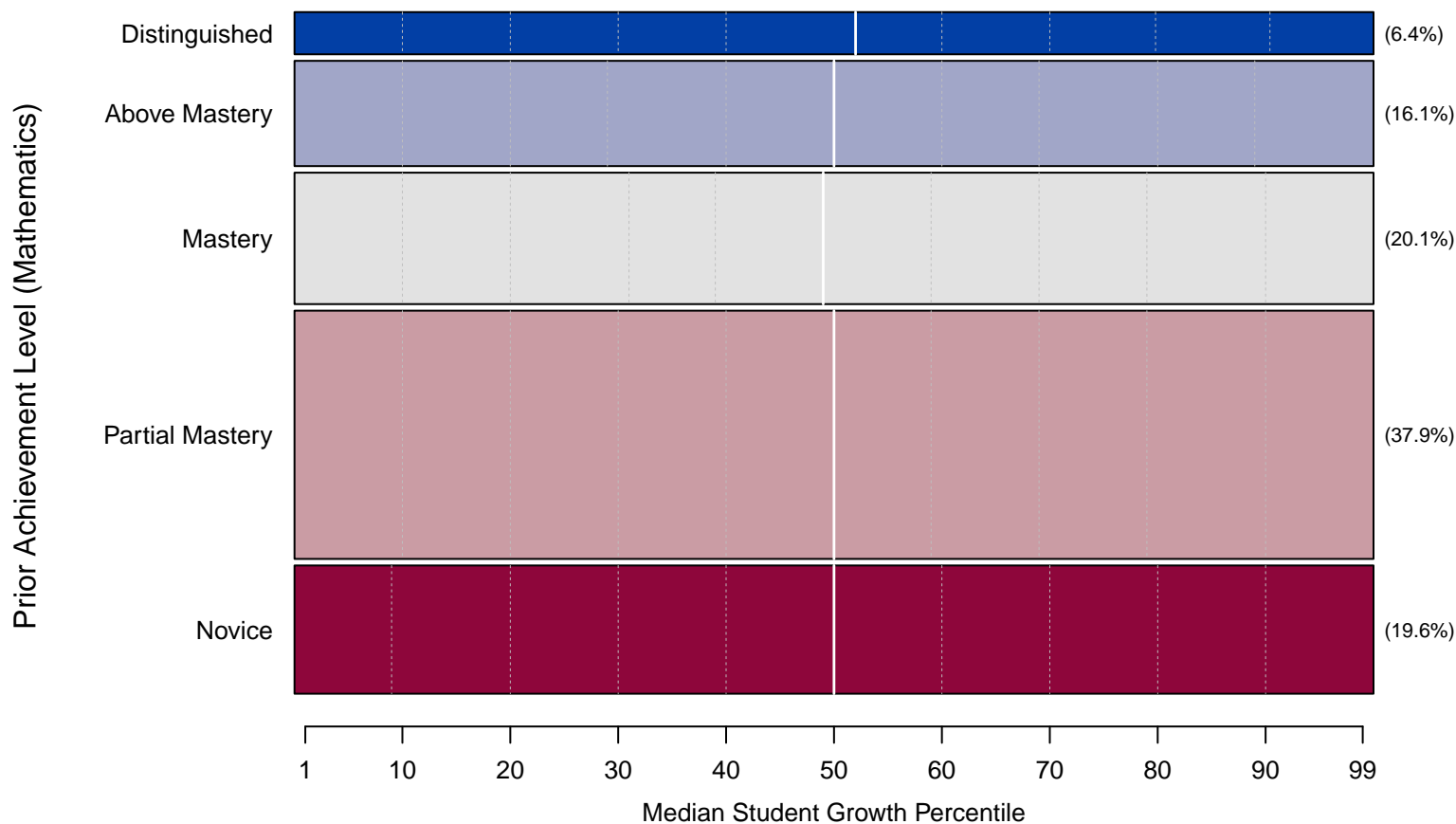# Student Growth Percentile Goodness–of–Fit Descriptives

2013–2014 Mathematics SGP, Grade 4 (N = 17,192)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

Distinguished	(6.4%)
Above Mastery	(16.1%)
Mastery	(20.1%)
Partial Mastery	(37.9%)
Novice	(19.6%)

Median Student Growth Percentile: 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/[385,531]	12.76	7.05	10.78	9.67	10.08	10.02	9.56	10.49	9.56	10.02	(10%)
2nd/[531,547]	8.50	10.80	9.83	10.44	9.77	8.74	10.50	9.04	11.89	10.50	(9.6%)
3rd/[547,556]	8.72	11.95	9.47	10.37	9.17	13.07	9.17	9.47	8.26	10.37	(7.7%)
4th/[556,569]	9.71	8.72	10.47	11.23	9.43	9.57	10.56	11.80	8.67	9.85	(12.3%)
5th/[569,576]	11.60	8.65	10.83	8.52	12.94	6.66	13.71	5.25	10.83	11.02	(9.1%)
6th/[576,584]	9.01	11.66	7.42	11.06	8.87	12.32	7.02	11.99	10.79	9.87	(8.8%)
7th/[584,594]	9.84	10.40	9.74	11.20	10.54	10.31	9.22	8.89	9.93	9.93	(12.4%)
8th/[594,601]	8.17	9.91	11.72	10.14	11.72	8.25	8.70	12.10	7.72	11.57	(7.7%)
9th/[601,617]	9.40	9.69	11.48	8.10	10.17	9.45	11.76	8.92	10.22	10.80	(12.1%)
10th/[617,780]	9.92	10.81	8.42	10.81	10.31	10.87	8.81	10.48	9.87	9.70	(10.4%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution