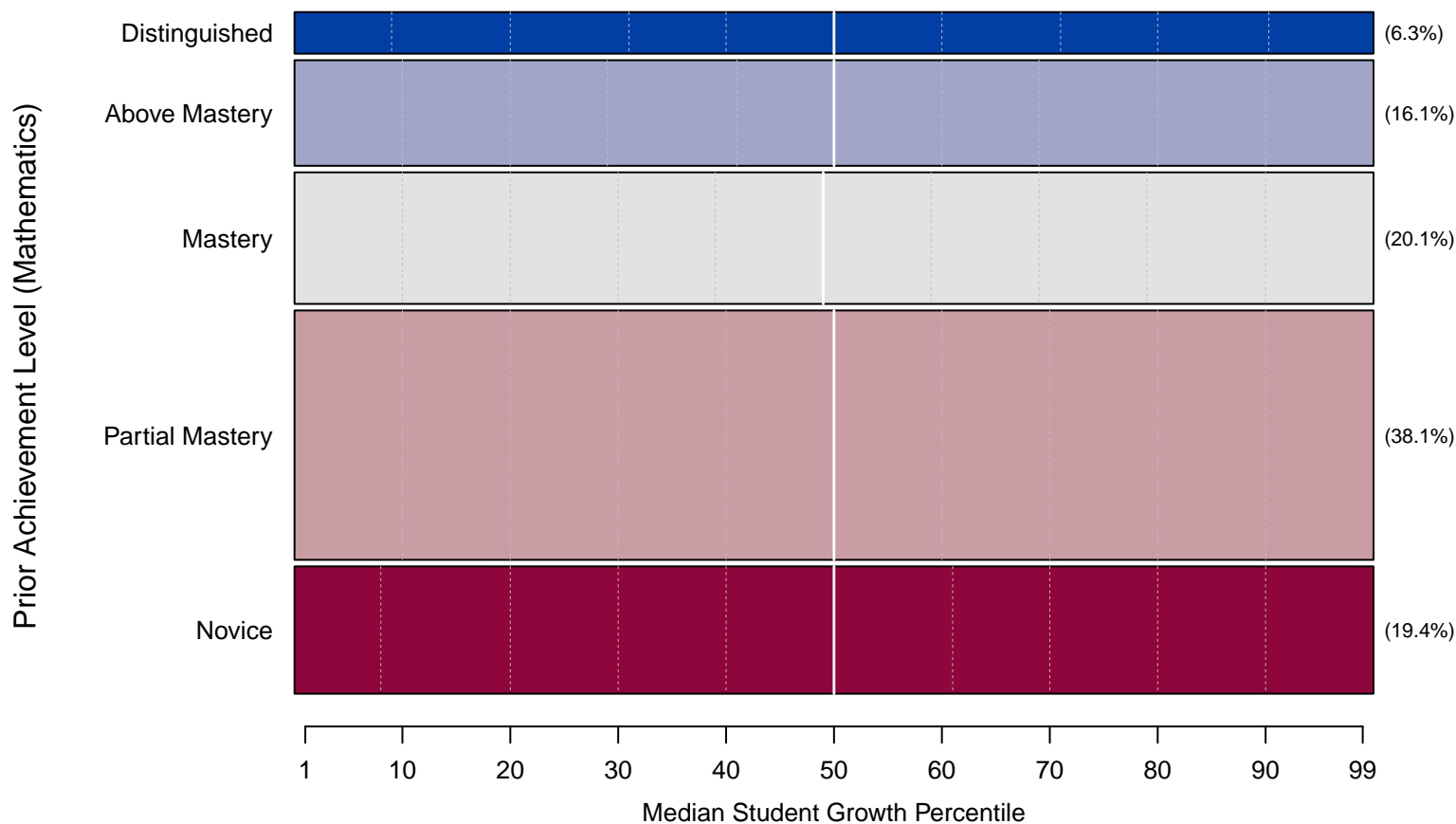# Student Growth Percentile Goodness–of–Fit Descriptives

2013–2014 Mathematics SGP, Grade 4 (N = 19,039)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

Level	Percent
Distinguished	(6.3%)
Above Mastery	(16.1%)
Mastery	(20.1%)
Partial Mastery	(38.1%)
Novice	(19.4%)

Median Student Growth Percentile

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]	12.54	7.62	9.89	9.58	10.95	10.48	10.00	9.31	9.74	9.89	(9.9%)
2nd/[531,547]	8.24	11.28	9.85	10.84	8.52	8.79	10.84	9.24	11.78	10.62	(9.5%)
3rd/[547,556]	8.49	12.10	9.36	10.76	9.36	12.70	8.89	9.49	8.29	10.56	(7.9%)
4th/[556,569]	10.05	9.45	10.01	10.65	9.11	9.75	11.12	10.52	9.79	9.54	(12.3%)
5th/[569,576]	11.07	8.53	10.84	8.88	13.08	6.57	10.43	8.70	9.97	11.93	(9.1%)
6th/[576,584]	8.94	11.39	9.24	9.18	8.88	12.22	7.27	12.16	10.85	9.84	(8.8%)
7th/[584,594]	9.83	10.43	8.72	12.09	10.60	10.43	9.53	7.79	11.02	9.57	(12.3%)
8th/[594,601]	8.10	10.34	11.29	9.93	11.77	8.57	8.78	12.18	7.35	11.70	(7.7%)
9th/[601,617]	9.78	9.57	11.91	6.74	10.78	9.43	11.70	9.39	9.48	11.22	(12.1%)
10th/[617,780]	9.97	10.18	8.71	11.24	9.82	11.09	8.96	9.82	10.68	9.52	(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