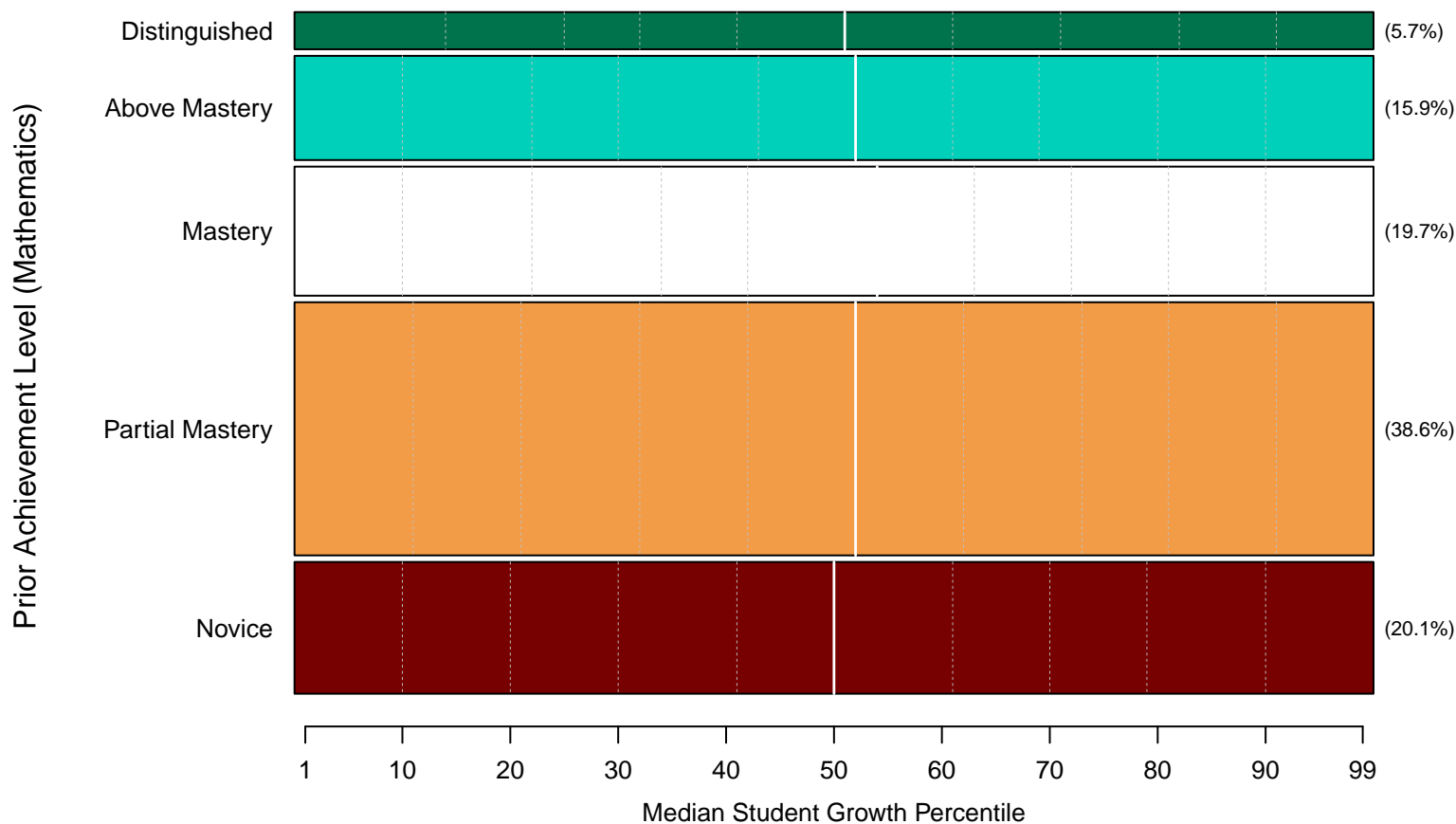# Student Growth Percentile Goodness–of–Fit Descriptives

2011–2012 Mathematics SGP, Grade 4 (N = 19,239)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

Achievement Level	Percent
Distinguished	(5.7%)
Above Mastery	(15.9%)
Mastery	(19.7%)
Partial Mastery	(38.6%)
Novice	(20.1%)

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/[385,525)	10.26	9.50	10.45	8.74	7.79	12.98	10.01	10.26	9.44	10.58	(8.2%)
2nd/[525,542)	8.87	11.38	8.50	9.97	10.15	13.27	6.91	11.68	9.30	9.97	(8.5%)
3rd/[542,556)	8.81	8.17	11.74	8.40	11.87	6.99	13.42	8.31	10.27	12.01	(11.4%)
4th/[556,565)	8.28	9.06	6.16	12.39	11.72	10.45	9.06	8.88	11.66	12.33	(8.6%)
5th/[565,572)	9.24	10.42	8.77	9.18	6.95	14.66	6.12	13.18	11.71	9.77	(8.8%)
6th/[572,584)	8.85	8.42	9.92	9.84	9.05	9.41	12.55	9.33	11.49	11.14	(13.2%)
7th/[584,591)	7.82	10.83	10.39	9.01	9.89	7.51	14.58	7.07	10.89	12.02	(8.3%)
8th/[591,601)	8.26	9.49	10.63	5.39	16.29	7.99	8.76	12.19	8.63	12.37	(11.4%)
9th/[601,613)	9.12	10.48	9.93	9.39	7.75	9.12	17.85	6.50	9.88	9.99	(9.5%)
10th/[613,780]	7.12	11.60	9.87	11.34	8.50	9.01	9.79	12.03	9.83	10.91	(12.1%)

*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