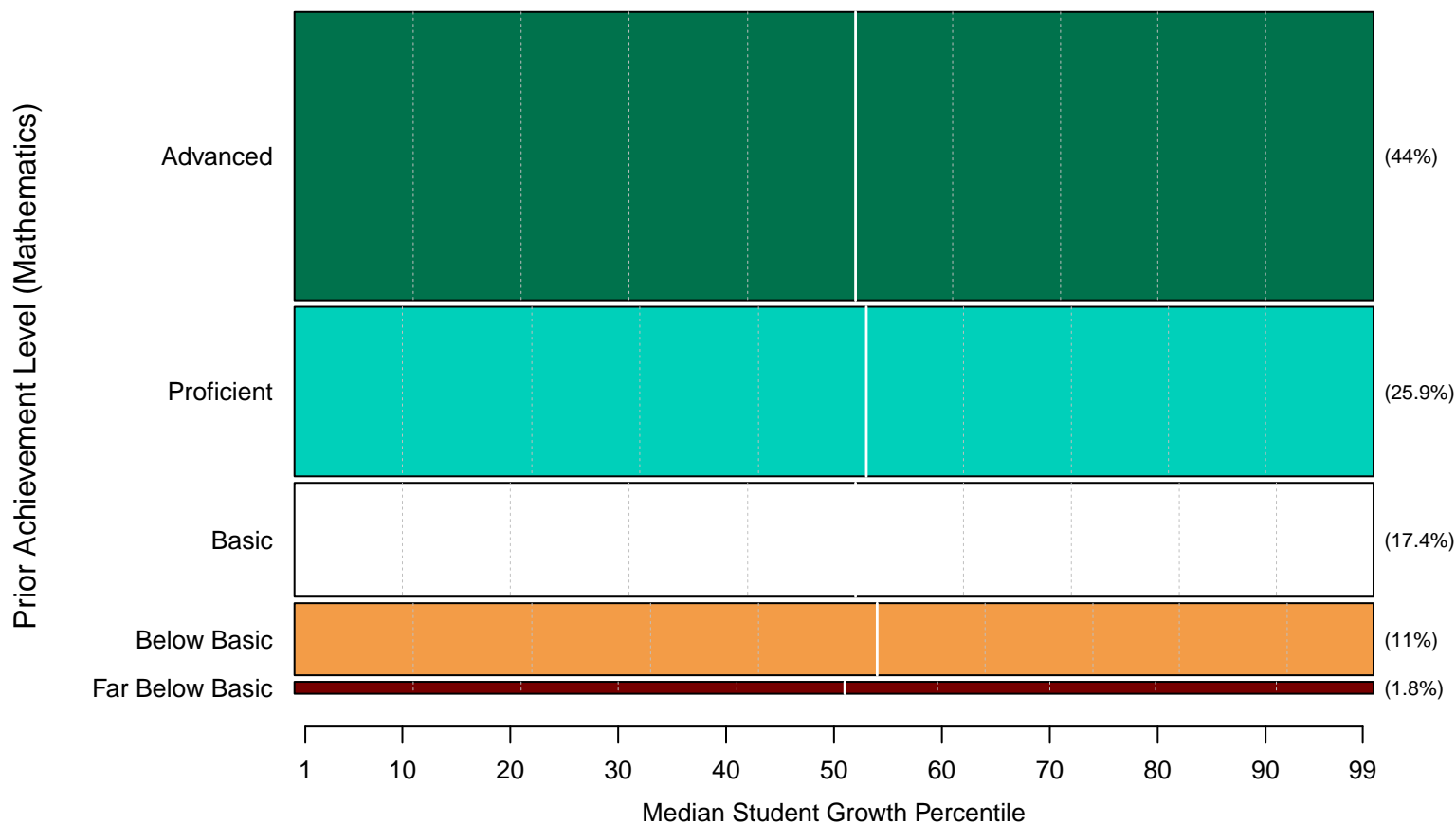# Student Growth Percentile Goodness–of–Fit Descriptives

2012 Science SGP, Grade 5 (N = 42,250)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

Advanced	(44%)
Proficient	(25.9%)
Basic	(17.4%)
Below Basic	(11%)
Far Below Basic	(1.8%)

Median Student Growth Percentile

1 10 20 30 40 50 60 70 80 90 99

Student Growth Percentile Range

Prior Scale Score Decile/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/[150,291]	8.45	9.90	9.74	8.62	9.93	9.93	10.26	11.07	9.71	12.38	(9.9%)
2nd/[291,321]	8.95	10.02	9.94	8.54	9.73	10.24	10.77	9.22	10.83	11.77	(8.8%)
3rd/[321,346]	8.88	9.92	8.86	9.85	8.78	9.97	10.12	10.23	11.82	11.57	(9.4%)
4th/[346,370]	10.06	7.82	10.19	8.90	10.43	8.25	10.25	11.43	11.57	11.10	(11.6%)
5th/[370,389]	9.36	8.58	9.36	10.22	9.75	10.56	9.98	9.52	11.00	11.68	(9.1%)
6th/[389,403]	8.99	10.49	9.22	11.05	8.31	9.71	10.62	10.59	9.94	11.08	(7.3%)
7th/[403,432]	9.10	10.18	9.14	8.65	11.37	9.87	10.13	9.62	10.94	11.01	(13.2%)
8th/[432,463]	9.78	8.44	9.87	9.83	9.74	11.90	11.81	10.36	7.62	10.65	(10.6%)
9th/[463,486]	7.78	7.07	9.06	12.94	11.83	7.15	13.77	7.36	12.86	10.17	(5.7%)
10th/[486,600]	8.81	9.14	9.30	11.08	9.60	11.08	9.65	9.51	12.87	8.96	(14.5%)

*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