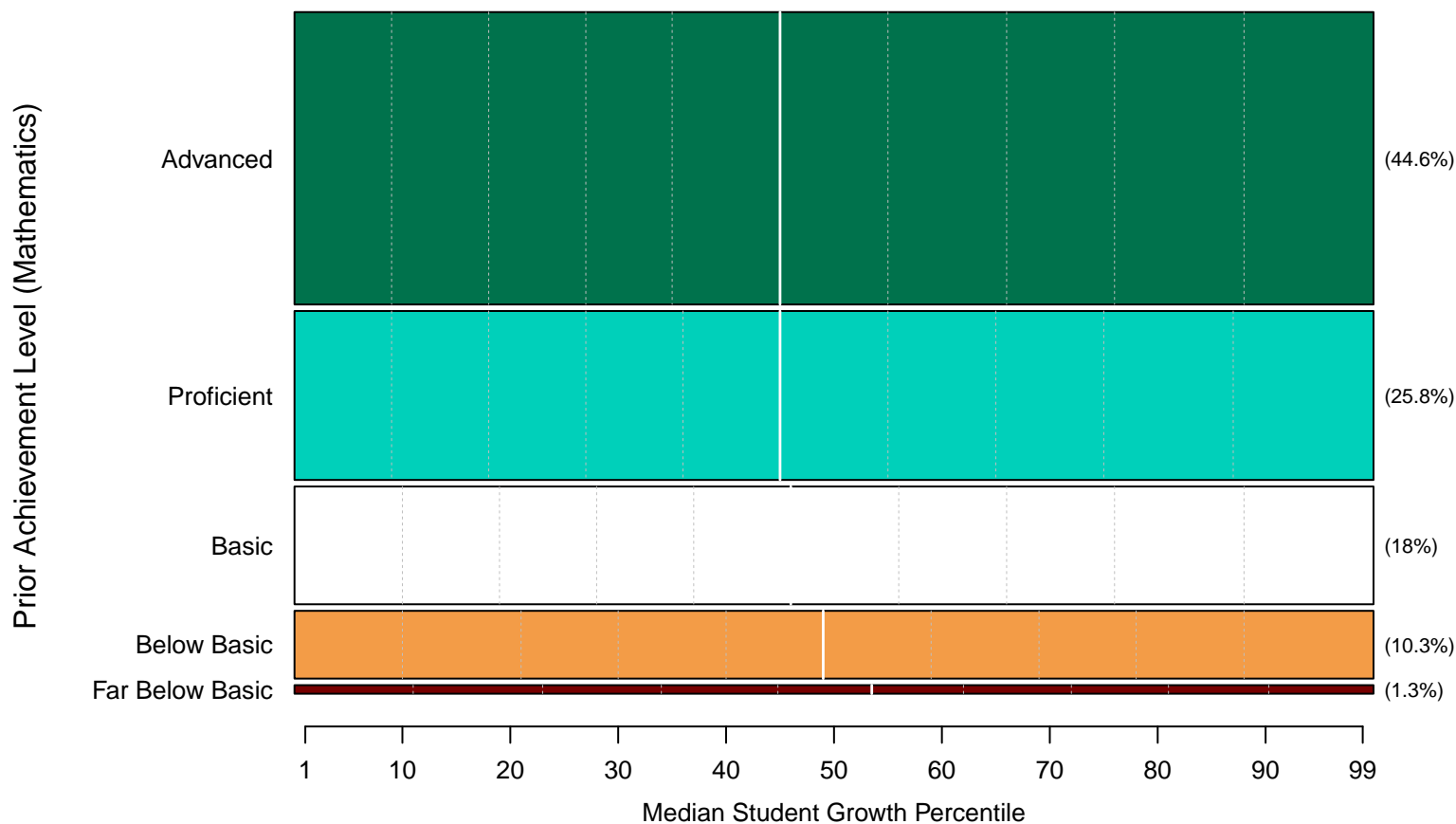# Student Growth Percentile Goodness–of–Fit Descriptives
2013 Science SGP, Grade 5 (N = 38,135)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

Level	Percent
Advanced	(44.6%)
Proficient	(25.8%)
Basic	(18%)
Below Basic	(10.3%)
Far Below Basic	(1.3%)

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 *

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/[161,293)	9.51	9.45	9.88	9.94	10.56	10.67	10.18	10.58	10.05	9.18	(9.7%)
2nd/[293,326)	8.62	10.43	11.03	11.00	10.19	10.71	10.77	9.88	8.94	8.44	(10%)
3rd/[326,352)	10.55	11.35	11.08	11.37	9.96	10.66	9.67	9.16	7.86	8.34	(9.8%)
4th/[352,373)	10.09	11.87	10.88	11.02	10.55	10.20	9.85	8.09	9.23	8.21	(8.9%)
5th/[373,392)	11.13	10.93	12.41	10.50	10.27	10.84	9.70	9.05	7.88	7.28	(9.2%)
6th/[392,417)	9.97	10.74	11.11	10.87	10.32	10.68	9.47	9.47	9.07	8.29	(12%)
7th/[417,441)	10.60	11.06	11.04	10.73	10.31	9.23	10.24	9.51	8.87	8.43	(10.1%)
8th/[441,457)	11.22	11.17	11.49	9.16	9.52	11.08	11.13	8.79	8.20	8.24	(5.7%)
9th/[457,517)	10.46	11.59	11.57	10.89	11.10	9.03	8.62	9.15	9.07	8.52	(12.8%)
10th/[517,600]	12.18	10.69	12.63	8.42	9.69	10.44	9.85	9.74	7.86	8.51	(11.6%)

*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