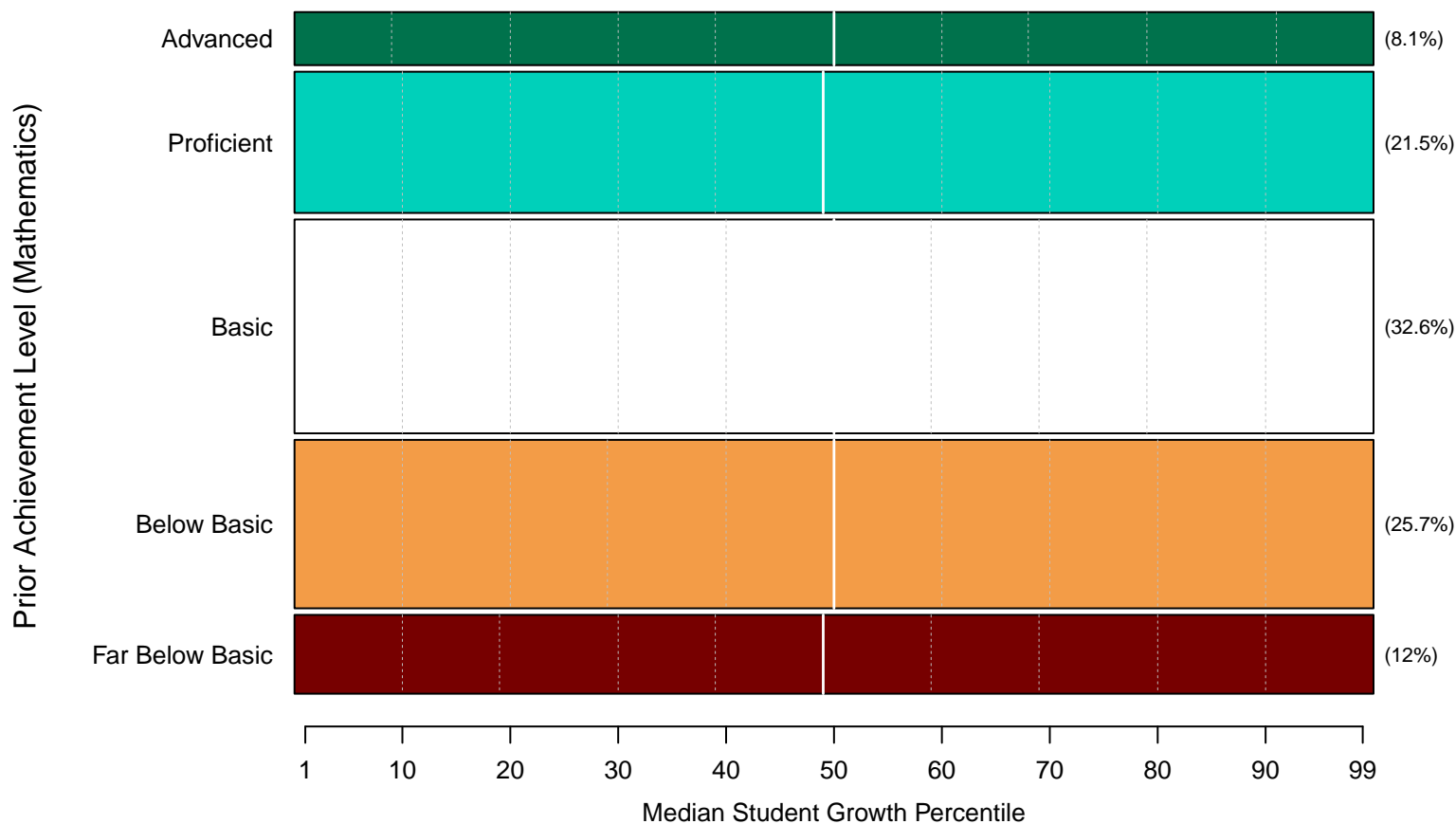# Student Growth Percentile Goodness–of–Fit Descriptives
2010 Science SGP, Grade 8 (N = 41,074)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

Level	Percent
Advanced	(8.1%)
Proficient	(21.5%)
Basic	(32.6%)
Below Basic	(25.7%)
Far Below Basic	(12%)

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/[159,255)	10.08	9.44	10.11	10.46	9.93	10.16	9.44	10.00	10.03	10.36	(9.5%)
2nd/[255,270)	9.57	10.34	10.25	10.73	9.48	9.75	10.16	9.87	9.81	10.04	(8.2%)
3rd/[270,287)	9.21	10.23	10.79	8.45	9.96	10.36	10.42	10.31	9.44	10.84	(11.6%)
4th/[287,300)	10.19	9.99	10.17	10.69	10.31	7.58	9.35	10.17	11.24	10.31	(8.4%)
5th/[300,316)	9.22	10.50	8.83	11.09	10.82	9.53	10.73	9.58	9.44	10.26	(10.8%)
6th/[316,332)	10.13	10.20	10.39	8.95	11.31	10.44	9.07	9.40	9.89	10.22	(10.1%)
7th/[332,349)	9.20	9.30	10.71	10.15	8.59	10.76	11.94	10.12	8.82	10.40	(9.5%)
8th/[349,371)	9.61	10.39	10.53	9.86	10.92	8.13	10.32	9.68	9.57	10.99	(10.6%)
9th/[371,402)	9.25	10.18	9.74	10.32	9.62	10.49	9.25	10.86	10.86	9.43	(10.4%)
10th/[402,600]	9.91	10.04	9.89	10.85	9.24	10.04	10.09	10.18	9.39	10.36	(10.9%)

*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