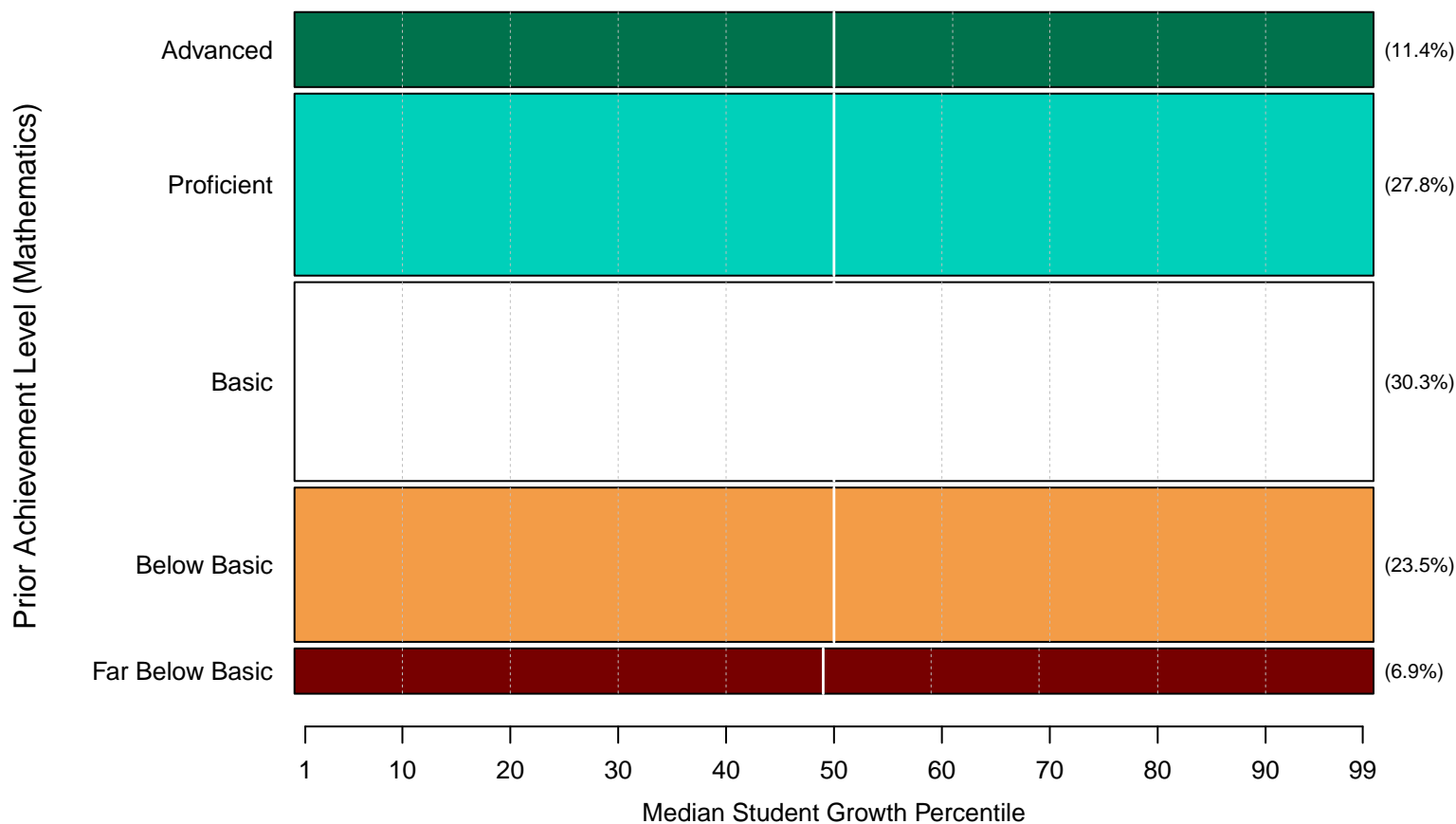# Student Growth Percentile Goodness–of–Fit Descriptives
2012 Science SGP, Grade 8 (N = 33,199)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

Level	(%)
Advanced	(11.4%)
Proficient	(27.8%)
Basic	(30.3%)
Below Basic	(23.5%)
Far Below Basic	(6.9%)

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/[150,263)	9.57	9.94	10.31	9.91	10.79	9.70	10.14	9.50	9.50	10.65	(8.9%)
2nd/[263,281)	9.60	10.31	9.20	10.15	8.96	10.31	9.67	10.72	11.02	10.04	(8.9%)
3rd/[281,298)	9.27	9.83	10.40	9.92	10.28	10.22	10.37	9.77	9.41	10.54	(10.1%)
4th/[298,315)	9.34	9.84	10.37	10.79	9.93	9.69	9.07	10.14	9.90	10.93	(10.2%)
5th/[315,331)	9.91	10.29	9.44	8.88	10.32	10.32	10.40	9.96	10.35	10.14	(10.3%)
6th/[331,348)	9.62	10.65	10.20	10.47	10.11	9.38	10.65	9.20	9.83	9.89	(10%)
7th/[348,365)	9.02	8.95	10.18	10.21	9.30	10.74	9.67	10.58	9.52	11.83	(9.6%)
8th/[365,390)	9.68	10.54	9.63	9.68	10.52	9.50	9.60	10.27	10.38	10.19	(11.2%)
9th/[390,420)	9.53	9.76	10.31	10.40	10.08	10.40	9.89	9.73	10.47	9.44	(9.4%)
10th/[420,600]	9.63	9.95	10.03	9.84	9.79	9.71	10.29	10.24	9.63	10.87	(11.4%)

*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