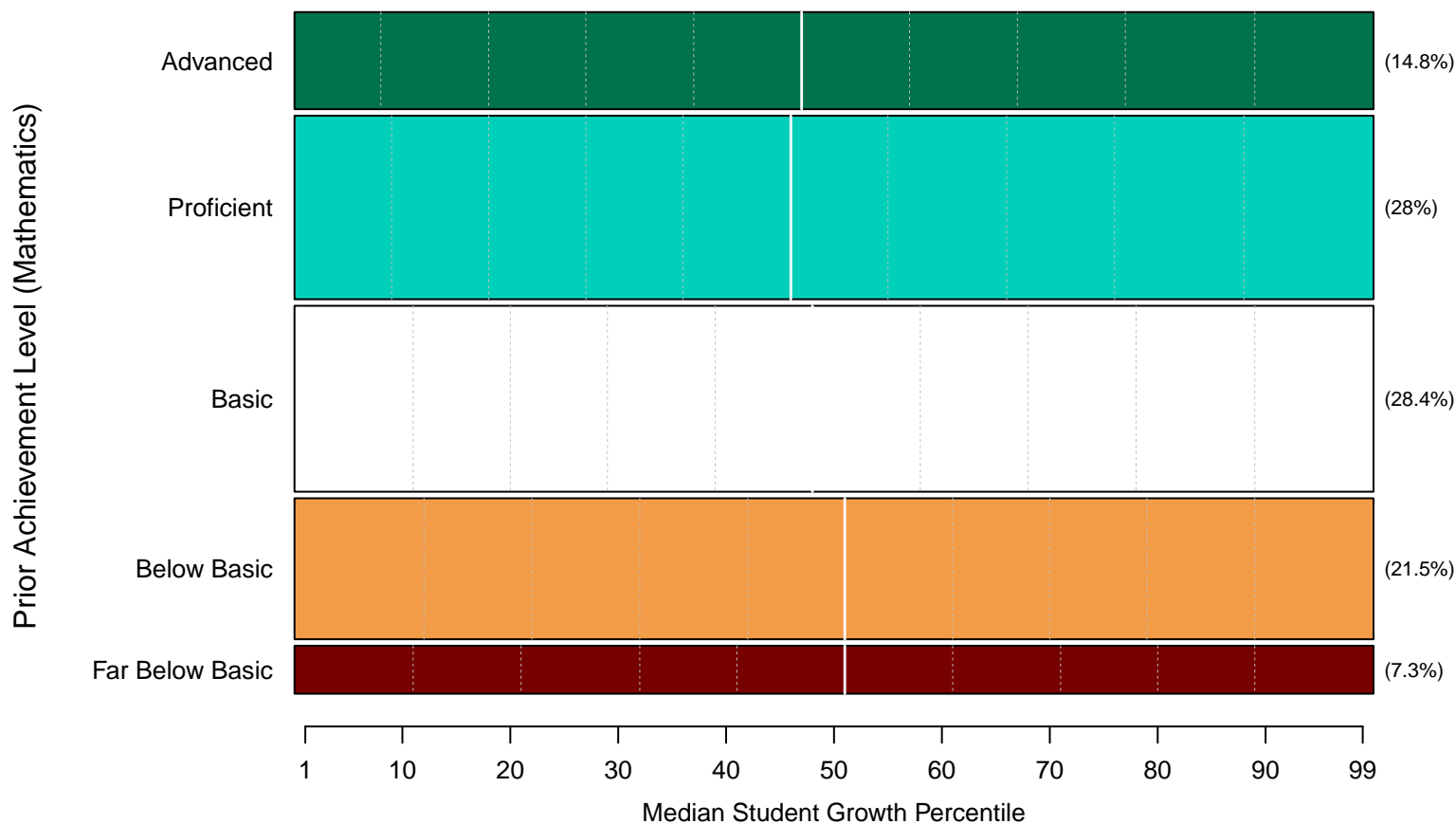# Student Growth Percentile Goodness–of–Fit Descriptives
2013 Science SGP, Grade 8 (N = 32,005)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

- Advanced (14.8%)
- Proficient (28%)
- Basic (28.4%)
- Below Basic (21.5%)
- Far Below Basic (7.3%)

Median Student Growth Percentile

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/[168,262)	8.72	9.40	10.18	9.91	10.32	9.98	9.84	10.66	11.20	9.81	(9.2%)
2nd/[262,285)	7.79	8.68	9.62	10.30	10.48	11.39	10.74	10.42	10.60	9.98	(10.6%)
3rd/[285,302)	8.66	9.31	10.21	11.00	10.69	9.83	10.24	11.31	9.87	8.87	(9.1%)
4th/[302,318)	8.17	10.21	10.91	10.81	10.85	10.21	10.34	9.92	9.10	9.48	(9.8%)
5th/[318,335)	8.30	10.33	10.60	10.57	10.16	10.30	10.16	10.20	9.72	9.65	(9.2%)
6th/[335,356)	9.53	11.17	11.44	10.71	10.23	10.34	9.59	9.94	8.49	8.57	(11.6%)
7th/[356,374)	10.16	10.53	11.31	11.07	10.70	10.29	9.41	8.97	8.26	9.28	(9.2%)
8th/[374,401)	9.73	11.44	11.85	10.94	10.35	9.94	9.23	9.05	8.94	8.52	(10.6%)
9th/[401,435)	10.94	11.70	10.74	11.67	9.75	9.45	8.79	10.05	8.26	8.63	(9.5%)
10th/[435,600]	11.50	10.19	10.91	9.77	10.66	9.16	9.74	9.49	8.88	9.69	(11.2%)

*Prior score deciles can be uneven depending upon the prior score distribution

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution