Student Growth Percentile Goodness–of–Fit Descriptives
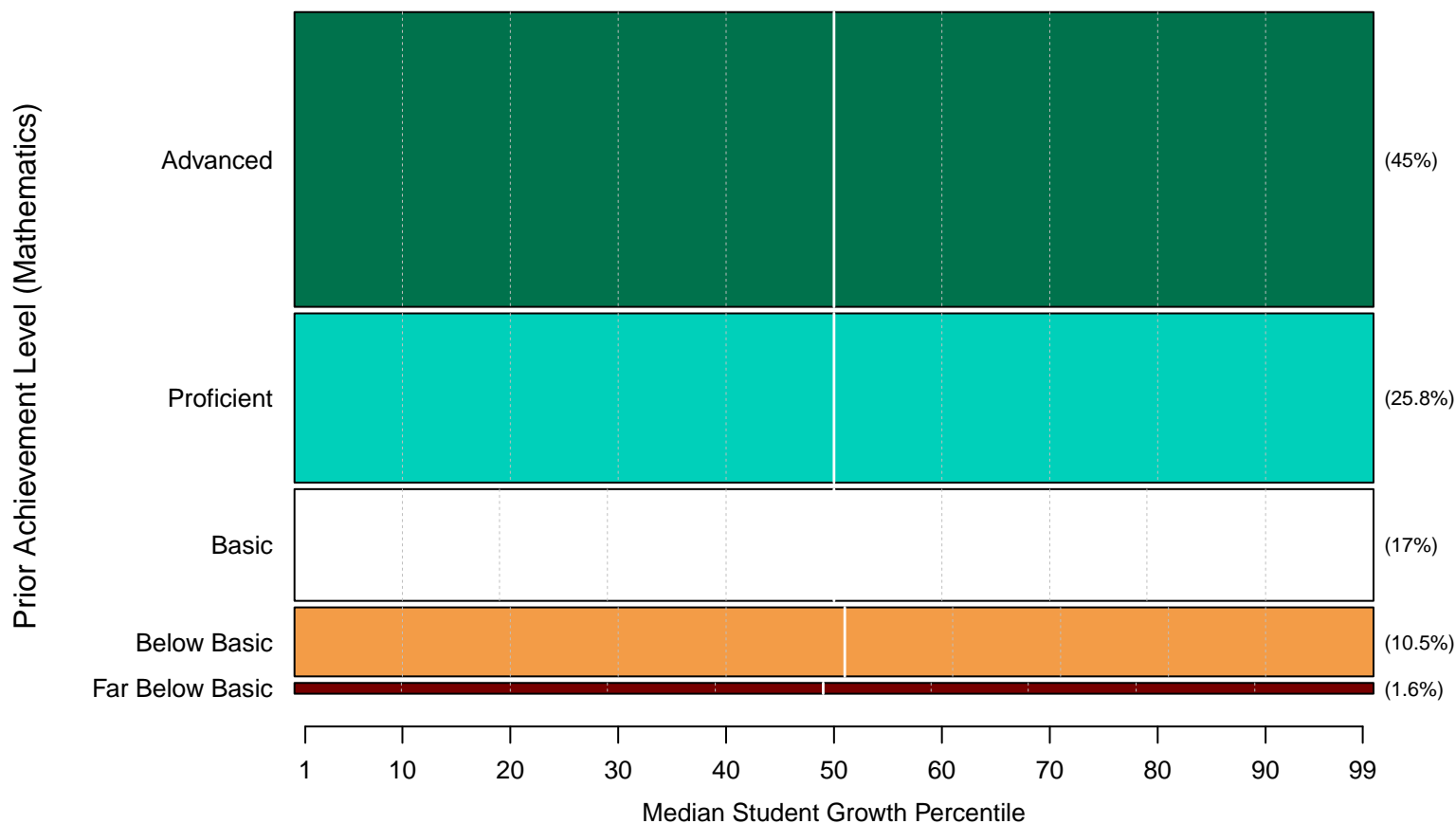## 2012 Science SGP, Grade 5 (N = 37,116)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Mathematics)

- Advanced (45%)
- Proficient (25.8%)
- Basic (17%)
- Below Basic (10.5%)
- Far Below Basic (1.6%)

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/[150,291]	9.51	9.83	9.83	10.26	10.12	10.09	9.77	10.06	10.23	10.29	(9.4%)
2nd/[291,325]	9.84	9.97	10.11	9.57	9.95	10.14	10.24	9.86	9.70	10.62	(10%)
3rd/[325,350]	9.50	10.51	10.18	9.85	9.69	9.69	9.83	10.15	9.66	10.94	(9.9%)
4th/[350,370]	9.65	9.42	9.34	10.11	9.97	10.11	10.08	10.14	10.62	10.57	(9.4%)
5th/[370,389]	9.13	9.86	10.76	10.40	10.31	10.13	9.83	9.16	10.28	10.16	(9%)
6th/[389,412]	9.14	10.39	10.07	9.79	9.79	10.16	10.11	10.34	9.46	10.76	(11.6%)
7th/[412,432]	10.16	9.86	9.54	10.22	10.07	9.51	9.86	10.25	10.70	9.83	(9.1%)
8th/[432,463]	9.80	10.10	10.10	9.83	10.65	10.18	9.60	9.83	9.33	10.57	(10.8%)
9th/[463,486]	8.69	9.52	10.67	10.63	9.20	10.21	10.91	9.29	10.21	10.67	(5.8%)
10th/[486,600]	9.50	10.25	9.80	9.94	10.01	9.92	10.05	10.32	10.10	10.10	(15.1%)

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

QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution

Empirical SGP Distribution