Student Growth Percentile Goodness–of–Fit Descriptives
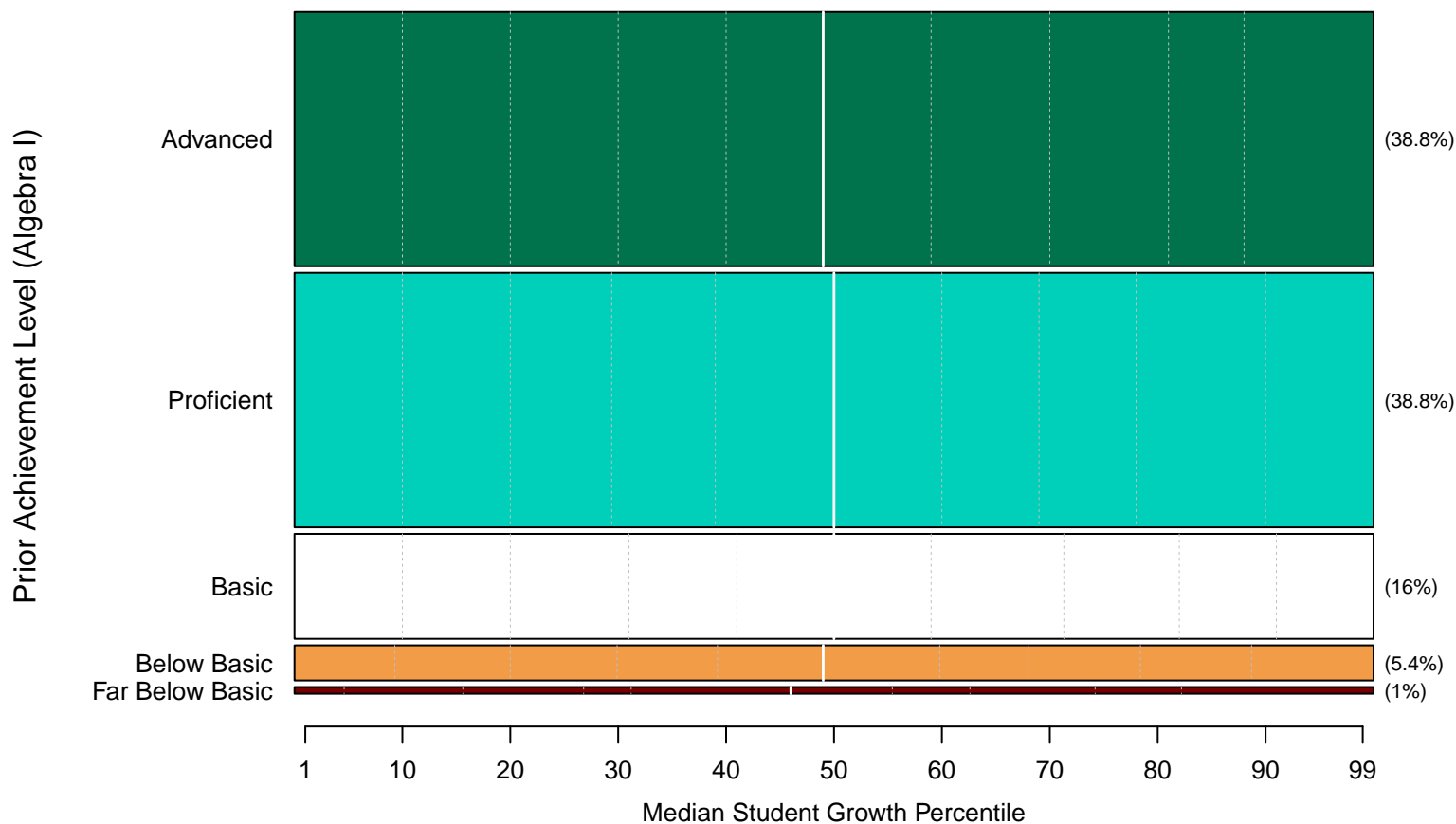## 2012 Science SGP, Grade 8 (N = 3,809)

SGP Deciles by Prior Achievement Level

Prior Achievement Level (Algebra I)

Level	Percentage
Advanced	(38.8%)
Proficient	(38.8%)
Basic	(16%)
Below Basic	(5.4%)
Far Below Basic	(1%)

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/[204,313)	11.18	9.71	9.71	9.41	10.59	10.29	10.29	9.71	10.00	9.12	(8.9%)
2nd/[313,342)	9.02	10.11	9.84	9.02	9.84	11.20	7.65	9.56	12.30	11.48	(9.6%)
3rd/[342,366)	9.66	9.90	11.35	11.11	9.90	8.94	12.32	7.73	8.45	10.63	(10.9%)
4th/[366,387)	10.33	9.51	8.70	8.97	7.88	10.33	11.14	16.30	10.60	6.25	(9.7%)
5th/[387,404)	10.12	10.74	9.82	11.96	12.27	8.28	7.98	10.43	7.67	10.74	(8.6%)
6th/[404,423)	10.76	10.24	11.02	12.86	9.19	11.29	8.92	8.66	4.99	12.07	(10%)
7th/[423,445)	6.92	7.88	10.26	7.40	10.98	8.59	12.89	12.17	6.21	16.71	(11%)
8th/[445,473)	10.63	11.84	10.39	7.97	10.14	10.39	10.14	3.62	16.91	7.97	(10.9%)
9th/[473,511)	10.57	10.03	9.21	8.94	12.47	11.11	3.79	9.21	21.68	2.98	(9.7%)
10th/[511,600]	9.22	8.98	11.17	10.68	11.17	10.44	10.44	14.56	9.47	3.88	(10.8%)

*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)