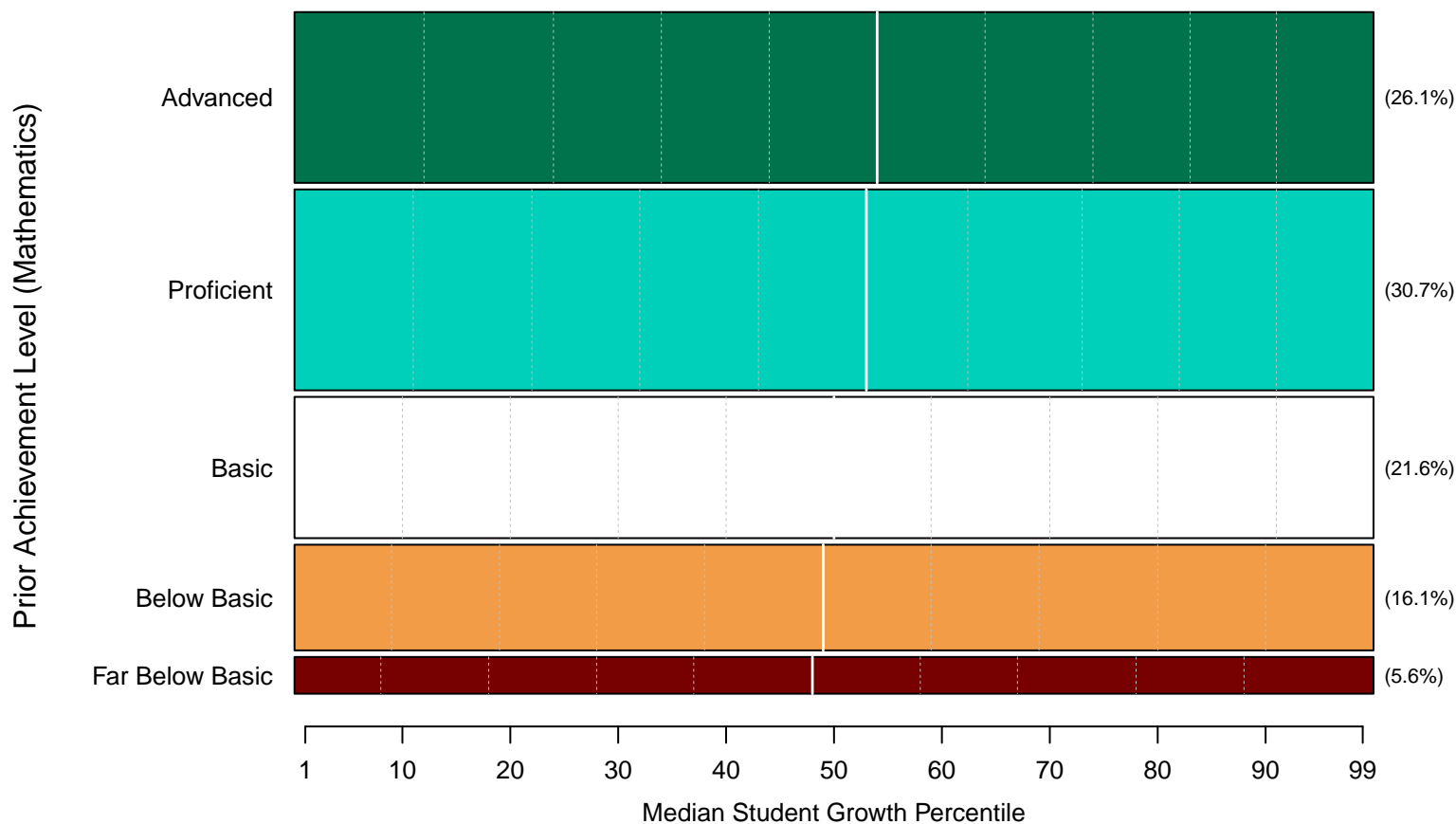# Student Growth Percentile Goodness–of–Fit Descriptives

## 2011 Mathematics SGP, Grade 6 (N = 39,522)

## SGP Deciles by Prior Achievement Level



**Prior Achievement Level (Mathematics)**

| Level | Percent |
|---|---|
| Advanced | (26.1%) |
| Proficient | (30.7%) |
| Basic | (21.6%) |
| Below Basic | (16.1%) |
| Far Below Basic | (5.6%) |

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/[151,264] | 10.89 | 11.19 | 10.27 | 9.85 | 9.38 | 9.55 | 10.60 | 9.94 | 9.20 | 9.14 | (8.5%) |
| 2nd/[264,295] | 10.69 | 10.24 | 10.28 | 9.69 | 9.62 | 9.87 | 9.99 | 9.28 | 10.37 | 9.96 | (11.1%) |
| 3rd/[295,315] | 10.93 | 10.40 | 10.10 | 10.13 | 9.92 | 9.89 | 9.62 | 9.47 | 9.47 | 10.10 | (8.4%) |
| 4th/[315,340] | 9.20 | 9.85 | 9.97 | 9.90 | 9.88 | 10.42 | 9.50 | 9.76 | 9.71 | 11.82 | (10.8%) |
| 5th/[340,366] | 9.42 | 9.69 | 10.04 | 9.56 | 9.88 | 9.85 | 10.08 | 10.36 | 9.88 | 11.25 | (11%) |
| 6th/[366,390] | 9.46 | 9.33 | 9.30 | 9.60 | 8.90 | 10.43 | 9.38 | 10.91 | 9.52 | 13.18 | (9.5%) |
| 7th/[390,417] | 8.24 | 8.63 | 9.95 | 9.00 | 10.50 | 9.77 | 9.92 | 10.48 | 11.11 | 12.40 | (9.6%) |
| 8th/[417,450] | 8.06 | 9.05 | 8.66 | 9.90 | 9.67 | 10.11 | 9.41 | 10.57 | 11.73 | 12.85 | (9.8%) |
| 9th/[450,499] | 7.51 | 9.66 | 9.51 | 9.11 | 9.45 | 9.61 | 10.16 | 10.79 | 11.40 | 12.79 | (9.6%) |
| 10th/[499,600] | 7.80 | 8.33 | 8.99 | 10.01 | 10.08 | 10.10 | 11.59 | 10.69 | 11.41 | 11.00 | (11.6%) |

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

## QQ–Plot: Student Growth Percentiles

Theoretical SGP Distribution



Empirical SGP Distribution