# Student Growth Percentile Goodness–of–Fit Descriptives
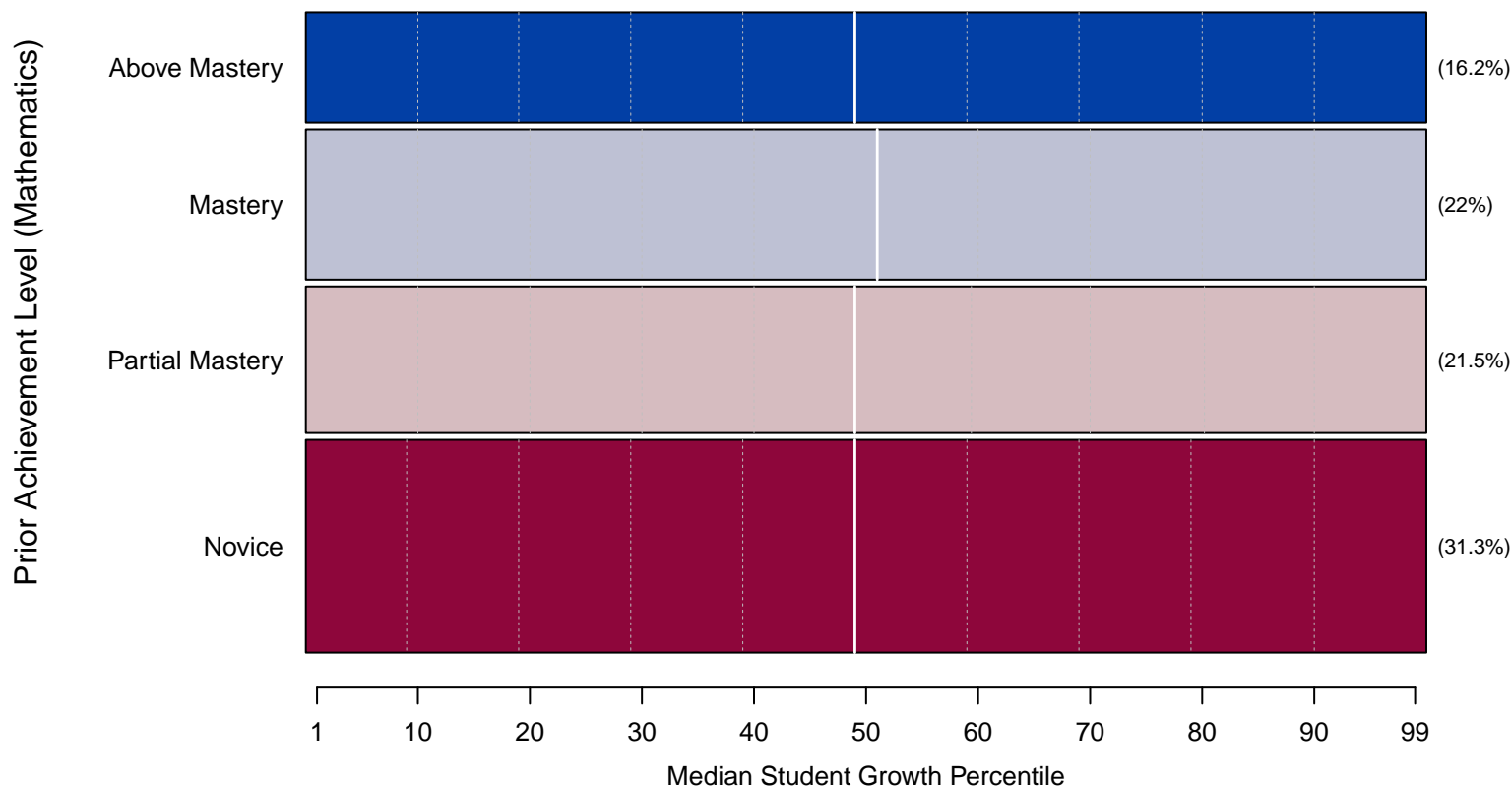
## 2014–2015 Mathematics SGP, Grade 8 (N = 18,900)

## SGP Deciles by Prior Achievement Level



Prior Achievement Level (Mathematics)

- Above Mastery (16.2%)
- Mastery (22%)
- Partial Mastery (21.5%)
- Novice (31.3%)

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/[487,577) | 10.06 | 10.17 | 10.79 | 9.95 | 9.89 | 10.12 | 10.06 | 9.39 | 9.17 | 10.40 | (9.5%) |
| 2nd/[577,601) | 9.93 | 10.34 | 9.02 | 10.69 | 9.98 | 9.93 | 9.12 | 10.09 | 10.64 | 10.24 | (10.4%) |
| 3rd/[601,613) | 10.14 | 9.25 | 11.03 | 9.73 | 9.45 | 10.07 | 10.62 | 10.75 | 8.77 | 10.21 | (7.7%) |
| 4th/[613,627) | 9.64 | 10.01 | 10.06 | 10.15 | 9.92 | 10.33 | 10.42 | 9.27 | 10.70 | 9.50 | (11.5%) |
| 5th/[627,637) | 9.54 | 10.25 | 10.14 | 9.98 | 10.47 | 9.60 | 8.72 | 10.03 | 9.81 | 11.45 | (9.7%) |
| 6th/[637,648) | 10.40 | 10.46 | 9.63 | 9.80 | 9.30 | 9.80 | 10.13 | 9.63 | 10.29 | 10.57 | (9.6%) |
| 7th/[648,660) | 9.17 | 9.58 | 9.94 | 8.96 | 9.74 | 10.36 | 10.62 | 10.51 | 10.67 | 10.46 | (10.2%) |
| 8th/[660,674) | 9.97 | 9.27 | 9.72 | 11.24 | 10.53 | 9.37 | 10.43 | 10.08 | 9.11 | 10.28 | (10.4%) |
| 9th/[674,694) | 9.63 | 11.51 | 10.09 | 9.32 | 10.29 | 10.29 | 9.32 | 9.37 | 9.78 | 10.39 | (10.4%) |
| 10th/[694,870] | 9.35 | 9.15 | 10.05 | 9.95 | 9.25 | 9.80 | 10.35 | 10.40 | 10.85 | 10.85 | (10.5%) |

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

## QQ–Plot: Student Growth Percentiles



Theoretical SGP Distribution

Empirical SGP Distribution