DESE Student Growth Model

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What is a Student Growth Percentile (SGP)?

- * A measure of student progress that compares changes in a student's MCAS scores to changes in MCAS scores of other students with similar achievement profiles.
 - The model establishes cohorts of students with "similar performance profiles" by identifying all students with the same (or very similar) MCAS scores in prior years
 - All MCAS data was used since 2006 when available to establish academic peers



Achievement vs. Growth

- MCAS shows how each student is achieving relative to state standards
- Growth measures change in an individual student's performance over time
 - Cannot compare student's scaled scores from year to year
 - Percentile is calculated on the change in achievement, not the absolute level



Understanding Percentiles

- Compare to height and weight percentiles for children
- Student growth percentiles measure change instead of absolute quantity
 - Student with a growth percentile of 90 in 5th grade mathematics grew as much or more than 90% of her academic peers from 4th to 5th grade math MCAS
 - Student with a growth percentile of 23 in 8th grade English language arts grew as much or more than 23% of her academic peers from 7th to 8th grade English MCAS

Rules of Thumb

- Typical student growth percentiles are between 40 and 60
- Students or groups outside this range are higher or lower than typical growth







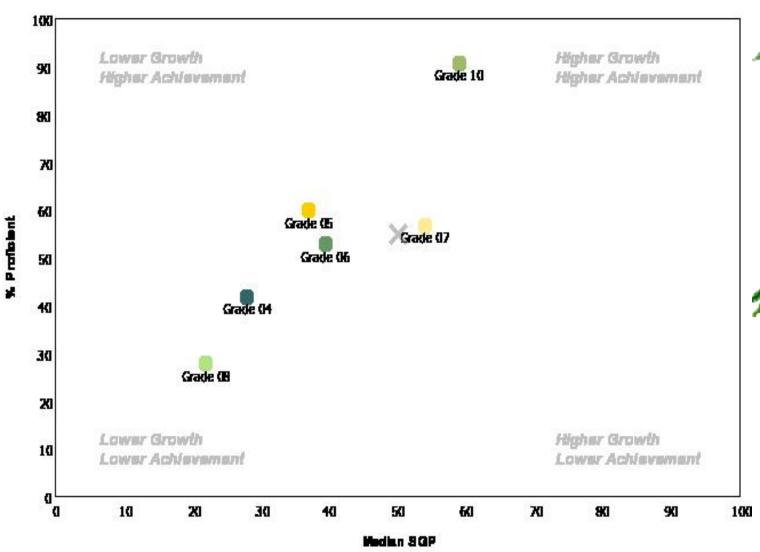


Measuring Growth for a Group

- * Most appropriate measure for reporting growth for a group is the median student growth percentile—the middle score if the individual student growth percentiles are ranked from highest to lowest
- A typical school or district in the Commonwealth would have a median student growth percentile of 50

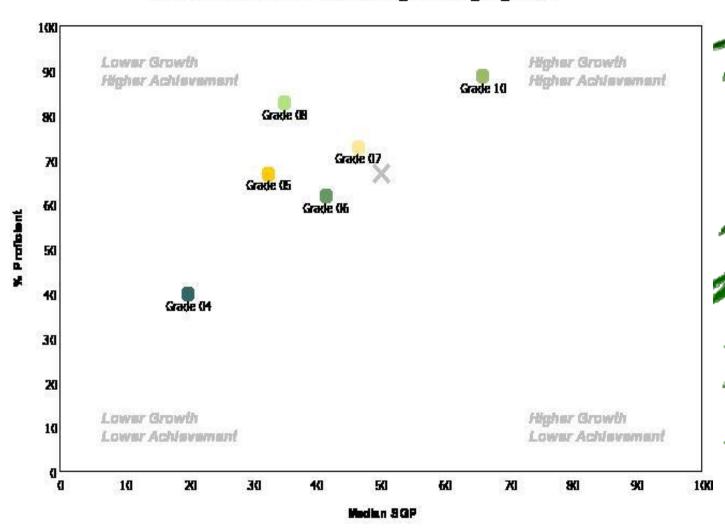


Hull - 2009 MCAS All Grades Mathematics





Hull - 2009 MCAS All Grades English Language Arts



Analyzing Student Growth Percentiles

- Principals and teachers working together
- Working to determine how to increase the growth of our students
 - Curriculum
 - Instruction
 - Professional development
 - Home support

