

# Explaining Student Growth Scores to Teachers and Principals 2018-19 Frequently Asked Questions

November 2019

Prepared for the New York State Education Department  
by Education Analytics, Inc. under contract C-012798





## Contents

Teachers .....	5
<b>Growth Score Calculations</b> .....	5
1. How are student growth scores calculated for students in grades 4.....	5
2.	



9. Some of my educators had large numbers of students opt out of State assessments. How can their State provided growth scores be considered accurate?.....14

10. The students opting out in my school were my highest performing students. How can my State provided growth score be considered accurate?.....14

11. Even if a similar proportion of educators are effective or better this year compared to last year, how stable are an individual educator’s results this year compared to last year?.....15

12. I’m a principal at a BOCES and received a Grade 12 State provided growth score. What do I do with my results?.....15

**Accessing Results .....15**

13. Are teachers able to see how students on their rosters impacted their State provided growth scores by logging in to the site where they verify their rosters? Are there directions for how they might do that?.....15

**Deadlines and Release Dates .....16**

14. When are State provided growth scores released?.....16

15. When were testing administration dates, and which administrations will be considered in State provided growth results?.....16

**Additional Resources.....17**

**Growth Resources on NYSED.gov State Growth Measures Toolkits .....17**

**NYSED APPR Guidance .....17**



## Teachers

### Growth Score Calculations

#### 1. How are student growth scores calculated for students in grades 4-8?

For each student in grades 4-8, a “student growth percentile” (SGP) is calculated based on his or her ELA and math State assessment results in the current year compared to similar students. The term “similar students” means not only students with the same academic history, but also students with the same English language learner (ELL), economic disadvantage, or disability statuses and the degree to which a student’s classmates are members of these groups.

SGPs range from 1 to 99, and they always tell you where a student stands in a distribution of similar students (specifically, what share of students he or she performed the same as or better than). SGPs are calculated separately by subject and grade.<sup>2</sup> An SGP score of 44 for a grade 4 ELA student, for example, would mean that the student scored as high or better than 44 percent of similar students on the grade 4 ELA assessment that year.

For educator evaluation, a teacher’s “mean growth percentile” (MGP) is then calculated, which is an aggregate measure of the growth of his or her students. A teacher’s MGP for each grade or subject is calculated using the SGP of each student on the teacher’s roster meeting the



Table 1. Sample Calculation of a Teacher's MGP Based on Weighted SGPs

Student	SGP	Enrollment	Include Student in MGP	Attendance	Enrollment x Attendance
Student A	45	80%	Yes	90%	0.72
Student B	40	100%	Yes	95%	0.95
Student C	70	50%	No	80%	NA
Student D	60	100%	Yes	90%	0.90
Student E	40	100%	Yes	75%	0.75

Note: This example includes fewer than 16 SGPs. MGPs are reported only when at least 16 SGPs are linked to a teacher.

To measure teacher performance, we find the MGP for his or her students, which is the weighted average of the SGPs that take into account the enrollment duration and attendance for each student. In the case described in Table 1, the steps to calculate a teacher's MGP would be:

- x **Step 1:** Multiply each student's SGP by their "Enrollment x Attendance" value; add all results together.  
 Table 1 example  $(45 \times 0.72) + (40 \times .95) + (60 \times .90) + (40 \times .75) = 154.4$
- x **Step 2:** Sum "Enrollment Duration x Attendance" results across all students.  
 Table 1 example  $0.72 + 0.95 + 0.90 + 0.75 = 3.32$
- x **Step 3:** Divide Step 1 result by Step 2.  
 Table 1 example  $154.4 / 3.32 = 46.5$

The teacher described in Table 1 has an MGP of **46.5**, meaning that, on average, students linked to this teacher performed as well as or better than about 47 percent of similar students.

For more information about how student growth scores are calculated in grades 4-8 please see the [Teacher's Guide to Interpreting State-Provided Growth Scores for Grades 4-8](#).

**2. How does student enrollment affect my growth score? What happens when a student isn't enrolled in a course for a certain duration?**

A teacher's State-provided growth score is based on his or her mean growth percentile (MGP), which is calculated by finding the weighted average of all student growth percentiles (SGPs) in each of a teacher's courses based on a State test in grades 4-8 ELA and mathematics. Each student's SGP is weighted in the teacher's MGP based on the amount of time that the student was enrolled and attended the course, based on the teacher-student data linkage (TSDL) data provided to NYSED by school districts, BOCES, and charter schools, where applicable. Districts, BOCES, and charter schools are required to certify the accuracy of the TSDL data submitted to NYSED to meet the annual data submission deadline, and §30-3.3 of the Rules of the Board of Regents requires teachers to be part of this data verification process.





HEDI scores of 0-20 are assigned to each educator based on his/her MGP within a particular HEDI rating category.

See the [2018-19 Classification Rules for Growth Ratings and Scores – Teachers](#) for more information.

**5. How/where can I get statewide statistics for my grade? I am especially interested in knowing the percentage of teachers in my grade, statewide, who got a 1, 2, 3, etc. on NYSED's 20-point scale.**

Education Law §3012-c(10), as applied to APPRs conducted pursuant to Education Law §3012-d, Education Law §3012-d(15) and §30-3.15 of the Rules of the Board of Regents, prohibits the Department and school districts/BOCES from releasing to the public APPR data, or any data that are used (as a component of APPRs) that include (personally identifying information) u-6 (t)-10 (o) (a) b teachers or principals. However, the percentage of educators statewide and by district and school







## Principals

### Specific Scores

#### 1. Why did one of my grade 4-8 teachers not receive a State-provided growth score?

There are a number of reasons why a teacher may not receive a State-provided growth score. The text below lists several of these reasons. You can use the "Teacher-Student 4-8" file, which was provided on the NYSED Information and Reporting Services Portal (



New York State Education Department  
Explaining Student Growth Scores to Teachers and Principals  
2018-19 Frequently Asked Questions





The Department plans to explore the possibility of expanding the model to incorporate measures of student performance in advanced coursework aligned with college-readiness standards in order to recognize efforts to encourage student participation and success in college preparation courses.

While the Department cannot yet say with certainty that any exploration will lead to the eventual adoption of an expanded growth model for grades 9-12, plans are in place to begin beta modeling s

New York State Education Department  
Explaining Student Growth Scores to Teachers and Principals







