

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

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Introduction

In 2018-19, approximately 37,000 teachers in English Language Arts (ELA)/math in grades 4-8 and 5,000 principals (of schools containing grades 4-8 as well as principals of schools containing all of grades 9-12) received a State-provided growth rating and score. The New York State Education Department (NYSED or “the Department”) has provided a variety of materials to help districts and educators understand and use the State-provided growth scores. These materials can be found at the NYSED.gov [“State Growth Measures Toolkits”](#) page.

The following document was developed based upon inquiries made directly by stakeholders across the State.¹ This document is separated into three sections with subsections:

Teachers’ Frequently Asked Questions

- Growth Score Calculations

Principals’ Frequently Asked Questions

- Specific Scores
- Accessing Results
- Deadlines and Release Dates

Additional Resources on State-provided Growth Scores

If further questions arise, reach out to the email addresses below:

- datasupport@nysed.gov for questions about data collection, or
- educatoreval@nysed.gov for questions about Annual Professional Performance Reviews (APPR).

¹ Note: If there are any discrepancies between the information presented in this document and statute, regulations, or APPR Guidance, the language in the statute, regulations, or APPR Guidance must prevail.



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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.² 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 minimum enrollment of 60% of the course duration. Each SGP is weighted by the proportion of time the student was enrolled in and attended the course with the teacher, as reported on the staff student course record. SGPs for students who were enrolled in a teacher’s course for longer periods of time and who attended the class more regularly count more heavily in a teacher’s MGP than those who were enrolled and attended for less time. Table 1 below and the following text gives an example of how a teacher’s MGP is calculated.

² This “comparison” is done through a regression modeling approach. For more details, please see the Growth Model for Educator Evaluation 2017/18 Technical Report, which is available on the [NYSED Growth Measures Toolkit](#) page. The 2018-19 Technical Report will be available on the NYSED website in the fall of 2019.



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

| Student | SGP | Enrollment | Include Student in MGP (≥60% enrollment) | Attendance | Enrollment x Attendance (Weight) |
|-----------|-----|------------|---|------------|-------------------------------------|
| 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:

- **Step 1:** Multiply each student's SGP by their "Enrollment x Attendance" value; add all results together.
 Table 1 example: $(45 \times 0.72) + (40 \times .95) + (60 \times .90) + (40 \times .75) = 154.4$
- **Step 2:** Sum "Enrollment Duration x Attendance" results across all students.
 Table 1 example: $0.72 + 0.95 + 0.90 + 0.75 = 3.32$
- **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 my course for 100% of its 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.



Students who are enrolled for less than 60 percent of a course's duration are not included in a teacher's MGP. Students whose course enrollment is 60 percent or more are included in a teacher's MGP and are weighted based upon the percentage of time the student is enrolled in and attends the course. For example, a student who was enrolled with the teacher for 80 percent of the course and attended 90 percent of the time he/she was enrolled would be weighted 0.8×0.9 or 0.72 (see question 1, Table 1: Student A above).

Contingent on meeting the minimum number of 16 SGPs, teachers will receive an MGP for each grade or subject for which they are responsible. If a teacher receives more than one MGP, the teacher's SGPs will be averaged across all grades and subjects into an overall MGP.

3. Given the statutory changes to APPR, why did I receive a State-provided growth rating and score and what do I do with it?

New York State teachers of mathematics and English language arts (ELA) in grades 4–8 and their principals will receive State-provided growth scores based on 2018-19 State tests **for advisory purposes only** pursuant to Chapter 59 of the Laws of 2019, which amended the Student Performance Category requirements of Education Law §3012-d.

For the 2018-19 school year, teachers and principals who are eligible to receive a State-provided growth score (i.e., teachers of grades 4-8 ELA and/or math and principals of schools that include grades 4–8 or all of grades 9–12) will only receive a single set of APPR scores and ratings based on one or more Alternate SLOs that are used in place of the State-provided growth scores for purposes of calculating the overall transition rating. Only the transition rating will be used for purposes of employment decisions, including tenure determinations, proceedings under Education Laws §§3020-a and 3020-b, teacher and principal improvement plans, and employment records³.

Student performance measures are just **one** of the **multiple** measures that comprise the annual professional performance reviews. For APPRs completed pursuant to Education Law §3012-d, an educator's overall composite rating is determined using a matrix that combines a rating based on one or more measures of student growth as well as a rating based on teacher observations.

4. How was my HEDI score determined?

When assigning State-provided growth ratings (HEDI) and scores (0-20), HEDI ratings are first assigned to teachers based on the mean and standard deviation of teacher mean growth percentiles (MGPs) statewide. Next, using scoring bands determined by Education Law §3012-d,

³ Please note that for the 2018-19 school year, although school districts and BOCES will still receive State-provided growth scores for all eligible teachers and principals, those scores and the "Original" evaluation which includes them are no longer required to be provided to teachers and principals.



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 includes personally identifying information for any teachers or principals. However, the percentage of educators statewide and by district and school who earned each HEDI rating in terms of their State-provided growth score is available on the [NYSED Public Data Site](#).

6. Why am I in the student file but not the teacher results file?

To be included in the student-teacher file, at least one student must be linked to the teacher. To be included in the HEDI results files, at least one student that received an SGP must have been attributed (i.e., met the 60% enrollment duration requirement) to the teacher. Teachers with fewer than 16 attributed SGPs (i.e., between 1 and 15 SGPs) will appear in the HEDI files but will not receive an MGP or HEDI result.

7. Why are my grade 8 Algebra I (Common Core) students not included in my State-provided growth score?

During the 2014-15 school year, the Department and its student growth vendor developed an expansion of the student growth model to calculate SGPs for eighth grade students who take the Algebra I Regents examination. However, consistent with the Department’s intent to maintain stability in the State-provided growth model during the transition period (2015-16 through 2018-19 school years) as the Department moves to a revised State-provided growth model, the Department decided not to move forward with this expansion of the growth model. Therefore, Algebra I Regents exam data are not included in the growth model for grades 7 or 8 students, and in 2018-19, students who took only the Regents exam and not their grade level math assessment were excluded from the State-provided growth model.



8. In general, how were results of the State-provided growth model impacted by student opt-out in 2018-19?

In the 2018-19, there were slightly more students included in growth results than there were in 2015-16, 2016-17, and 2017-18. Overall the number of students included in the analysis remains very large (about 230,000 – 318,000 student scores per grade in the grades 4-8 model). As a result of having more students in the model, more teachers and principals had sufficient numbers of student scores to receive State-provided growth results in 2018-19 than in 2017-18, 2016-17 and 2015-16. About 1,000 more teachers and 25 more principals serving students in grades 4-8 received scores in 2018-19. In addition, the model’s technical characteristics – specifically, model fit and statistical reliability of educator MGPs – are nearly identical to last year. The model continues to have no systematic relationships between teacher or principal MGPs and the percent of students with disabilities, English language learners, or economically disadvantaged students in classrooms or schools, indicating that the model continues to enable all educators to receive any growth score result, regardless of the characteristics of their students.

9. The students opting out in my class were my highest performing students. How can my State-provided growth score be considered accurate?

New York State’s growth model measures growth, not proficiency. That is, a student with a high prior test score will not necessarily receive a high student growth percentile (SGP). New York’s growth model has always assessed a student’s progress relative to students with a similar academic history and other defined characteristics, meaning that if high performing students are included, they are compared to other high performing students and will earn a range of SGPs.

Historical data suggest that there is essentially no relationship between average student prior scores and teacher MGPs. Previous years’ growth model results show that teachers with many high performing students and teachers with few high performing students receive similar ranges of MGPs. Therefore, the fact that previously high performing students may not have participated in testing is not necessarily relevant to a teacher’s growth score in 2018-19.

10. What impact can I expect on my State-provided growth score if my students were ones affected by the CBT challenges this year?

Students impacted by the CBT outage that do not have a valid test score will not receive a growth result and as a result will not be included in your growth score.



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 (IRSP), to understand the reasons a teacher who was included in your TSDL submission did not receive a State-provided growth score. In that file, you will see the list of students who were attributed to each teacher for use in the teacher's HEDI ratings/scores. You will also see a "reason for exclusion" if the student did not meet the requirements to be included in the teacher's HEDI rating/score determination. (This will be filled in as "NA" if the student was included.) A student may be excluded from a teacher's growth score for three reasons: 1) the student did not meet the minimum enrollment duration requirement (more below); 2) the student does not have a valid current year test score; or 3) the student does not have a valid prior year test score.

Reasons a grade 4-8 teacher may not have received a growth score:

- Growth scores are only provided for those teachers with students in grades 4-8 ELA and math. Teachers must have the minimum number of attributed student scores (16) to receive a growth score.
- Teachers that do not have any attributed students will not be included in the HEDI results file. These teachers will be included in the student file if they have at least one student linked to them.
- Students must meet the minimum enrollment duration required to be attributed to a teacher (60% of the course).

For example, a teacher had 17 student records linked to her. Two students left the class after being enrolled for only 40% of the class duration. The teacher did not meet the minimum number of student records (16) necessary to receive a growth score because two students did not meet the minimum enrollment duration (60% of the course).⁴

NYSED uses data for students, assessment scores, and enrollment and attendance duration submitted by districts and BOCES as of the deadlines set by NYSED for each data submission.

⁴ Note: If the teacher in question teaches both math and ELA for the 15 students who still meet the enrollment requirement, the teacher will not receive a subject-specific MGP for math or ELA. However, because each student has an SGP for both subjects, the teacher would have 30 total SGPs linked to her. This would result in the teacher receiving an overall MGP, despite not receiving subject-specific MGPs.



Data submitted or changed after the deadline will not be included in the current-year growth scores. Please see questions D2, D13, D90, and M8 in the [Education Law §3012-d APPR guidance document](#) for more information.

2. On our State-Provided Growth Report, fewer students are listed as having taken the State Exam than the number of students who actually took the test. Could you please advise why this is?

The assessment data provided to the vendor that calculates State-provided growth results had a scanning deadline of April 18, 2019 for ELA and May 16, 2019 for math. The likely reason for invalid scores is because assessments for those grade levels were not scanned by the deadline. Records reported after the scanning deadline and before the submission date will be reflected in L2RPT SIRS 301 Tested/Not Tested Confirmation Report and Score Reports. A student may also have invalid test scores if the student was absent for any session, refused to take the assessment, was assigned an administrative error, was medically excused, or was absent due to executive order. If you have any questions about your data being scanned, please contact your RIC/Big 5 scanning center.

3. How was my principal State-provided growth score calculated, and what students are included?

To be included in the calculation of a grade 4-8 principal's State-provided growth score, a student must be attributed to the school using NYSED's rules for inclusion in institutional accountability – the student must be present on both BEDS Day (October 3, 2018 for the 2018-19 school year) and the first assessment administration day (please see [NYSED Student Information Repository \(SIRS\) Manual](#) for more details) – and have an SPG score calculated in either ELA or math. Beginning with the 2013-14 school year, staff assignment records are used to link principals to schools and grades, which then are used to attribute students to the principals. Each principal in these grades and subjects will receive an MGP for each grade and subject for which the principal is responsible. This is the simple average (or mean) of all the SGPs from students meeting the minimum enrollment rules for principals in each grade and subject. The SGPs are then combined and averaged to determine an overall MGP that includes all grades for which the principal has a staff assignment record. The principal must have a minimum of 16 SGPs to receive an MGP. See APPR Guidance, specifically questions D2 and D15 of the [Education Law §3012-d APPR guidance document](#) for details.

To be included in the calculation of a high school principal's State-provided growth score, a student must have a grade 7 or 8 ELA or math test score and be enrolled in a school with all of grades 9-12. Note that students who transfer into New York State (NYS) schools in grade 9 from other states or countries will not be included if the baseline test scores from NYS assessments are not available. If a student is in his/her 5th through 8th year after entering high school, the



student will still be included in the principal's State-provided growth score calculation. A high school principal will only receive a State-provided growth score if the principal is responsible for all of grades 9-12, has a staff assignment record submitted for all of grades 9-12, and has a sufficient number of student scores attributed to him or her to calculate these measures. See questions D17, D18, D24, and D26 of the [Education Law §3012-d APPR guidance document](#) for details.

For more information about how principal growth scores are calculated, please refer to the Principals' [Guides to Interpreting State-Provided Growth Scores in 2018-19](#).

4. Why am I in the student file but not the principal results file?

To be included in the student-principal file, a principal must have at least one student linked to him or her. To be included in the HEDI results files, the principal must have at least one student that received an SGP and was attributed (i.e., was enrolled in the school on BEDS day and on the first day of the State assessment period) to him or her. Principals with fewer than 16 attributed SGPs (i.e., between 1 and 15 SGPs) will appear in the HEDI files but will not receive an MGP or HEDI result.

5. Does my principal's State-provided growth score include 8th grade Algebra scores?

During the 2014-15 school year, the Department and its student growth vendor developed an expansion of the student growth model to calculate SGPs for eighth grade students who take the Algebra I Regents Examination. However, this expanded model has not been implemented as part of the State-provided growth model. However, consistent with the Department's intent to maintain stability in the State-provided growth model during the transition period (2015-16 through 2018-19 school years) as the Department moves to a revised State-provided growth model, the Department decided not to move forward with this expansion of the growth model. Therefore, Algebra I Regents exam data are not included in the growth model for grades 7 or 8 students, and in 2018-19, students who took only the Regents exam and not their grade level math assessment were excluded from the State-provided growth model.

6. My high school students completed an alternative pathway to graduation. How are their results captured in the Growth in Regents Examinations results?

There are currently two different measures of student growth used in the Growth Model for principals of grades 9-12. The mean growth percentile (MGP) is based on student growth on the Regents Exams in ELA (Common Core) and Algebra I (Common Core). The Comparative Growth in Regents Exams Passed (GRE) measure is based on student progress from one year to the next towards passing up to eight Regents exams. Both measures currently consider only the performance of students on Regents examinations.



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 such an expansion. In order to do so, districts must submit results from participation in Advanced Placement (AP), International Baccalaureate (IB), dual enrollment courses and associated final exam scores, and participation in Blue Ribbon Panel endorsed Career and Technical Education (CTE) courses and associated final exam scores beginning in the 2016-17 school year. See the NYSED Office of Information and Reporting Services [Timeline](#) for reporting requirements for these alternative college- and career-readiness aligned assessments.

7. Where can I get help answering questions about these data?

NYSED has provided a variety of materials to help districts and educators understand and use the State-provided growth scores. The prior growth model vendor (American Institutes for Research—AIR) recorded a webinar that gives specifics about how growth scores and ratings are determined. The slides and links for these webinars are available on the [Resources about State-provided growth measures](#) page. Educator-specific brochures are also available on this site. Section D of the [Education Law §3012-d APPR guidance document](#) contains additional information about these measures. A technical report from Education Analytics (the current growth model vendor) will be published later this school year and will document the statistical and technical details of NYSED's educator growth measures. If further questions arise, districts can send an email to:

- datasupport@nysed.gov for questions about data collection, or
- educatoreval@nysed.gov for questions about APPR.

In addition, your district/BOCES leaders are a source of information and further training on State-provided growth scores. Note: For additional questions and answers about teacher and principal growth scores for use in educator evaluation, please see Section D of the [§3012-d APPR guidance document](#).

8. What are the key points district and school leaders should use when talking about growth scores?

The most important points to remember about educator growth scores used in evaluation are that:

- State-provided growth scores are for informational purposes only and are no longer required to be used for teacher and principal evaluations. When talking about an



educator's growth score results, it is important to keep these results in context with the other evidence of educator effectiveness from your district's evaluation system.

- State-provided growth scores measure change in learning between two points in time, not just a single-point level of achievement. While the characteristics of students who enter the schools and classrooms of educators are not subject to their control, educators can, and they do, influence the learning that happens over the course of the year. This is what the New York State-provided growth scores measure.
- State-provided growth scores measure student performance in the current year compared to that of similar students statewide. By similar students, we mean students with similar prior academic history and student demographic characteristics. This ensures that all educators have a chance to do well regardless of the composition of their schools or classrooms.
- NYSED has developed an animated video and a professional development turnkey kit for administrators to use as they explain how New York State calculates student growth based on State tests. These and other resources are available at the NYSED.gov [“State Growth Measures Toolkits”](#) page.

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?

Growth scores are accurate for the students included in the model; that is, an educator's results reflect the contribution of that educator to student learning for the students who were tested and received a student growth score. We cannot measure growth for students who did not take the test. In addition, New York State's growth model has always included a minimum sample size requirement (16 SGPs) to ensure that educators with very few students do not receive HEDI growth ratings. Finally, all growth ratings are computed using a confidence range. That is, in assigning HEDI ratings, New York State's system takes into account statistical uncertainty that may be partly due to the numbers of students included in an educator's score.

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

New York State's growth model measures growth, not proficiency. That is, a student with a high prior test score will not necessarily receive a high student growth percentile (SGP). New York's growth model has always assessed a student's progress relative to students with a similar academic history and other defined characteristics, meaning that if high performing students are included, they are compared to other high performing students and will earn a range of SGPs.

Historical data suggest that there is essentially no relationship between average student prior scores and principal MGPs. Previous years' growth model results show that principals with



many high performing students and principals with few high performing students receive similar ranges of MGPs. Therefore, the fact that previously high performing students may not have participated in testing is not necessarily relevant to a principal's growth score in 2018-19.

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?

In 2018-19, more than two-thirds (69%) of individual teachers earned the same rating they did in 2017-18, and 86% earned the same or better HEDI rating than they did in 2017-18. These are similar percentages to those who earned the same or better HEDI rating between 2015-16 and 2016-17 and between 2016-17 and 2017-18.

The results from New York's growth model continue to be somewhat more stable from year to year for individual educators than has been found by some other research, such as the Measures of Effective Teaching Study.

12. I'm a principal at a BOCES and received a Grades 9-12 State-provided growth score. What do I do with my results?

State-provided growth results received by Grades 9-12 BOCES principals and locations are provided for informational purposes only. APPR ratings for all principals should be based on the appropriate SLOs from the BOCES State-approved APPR plan.

Accessing Results

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?

Typically, the district data coordinator will pull down files from the Portal and distribute to personnel within the district. Department staff are not able to offer additional assistance with distributing these data to educators. However, the CEO/Superintendent could entitle principals to access these data. This would need to be a local decision.

The roster ("Teacher-Student 4-8" file) may be used to view the list of students who were attributed to each teacher for use in the teachers' HEDI ratings/scores. The [Principal](#) and [Teacher](#) Guides to Interpreting State-Provided Growth Scores describe the roster file and could be helpful for disseminating/explaining this information to educators.



Deadlines and Release Dates

14. When are State-provided growth scores released?

State-provided growth scores are to be provided to districts by September 1, or as soon as practicable thereafter. The 2018-19 State-provided growth scores and ratings were released in late September.

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

Grades 3-8 ELA and math assessment administration dates are as follows:

Table 4. Assessment Administration Windows: 2018-19 School Year

| Test | Administration Type | Administration Dates | Make-up Dates |
|------------------------------------|---------------------|--------------------------------------|---|
| Grades 3-8 English / Language Arts | Paper-based | Tuesday, April 2 – Thursday, April 4 | Friday, April 5 – Tuesday, April 9 |
| Grades 3-8 English / Language Arts | Computer-based | Monday, April 1 – Friday, April 12 | Thursday, April 4 – Friday, April 12 |
| Grades 3-8 Mathematics | Paper-based | Tuesday, May 1 – Thursday, May 3 | Friday, May 4 – Wednesday, May 9 |
| Grades 3-8 Mathematics | Computer-based | Tuesday, April 30 – Tuesday, May 7 | Friday, May 3 – Friday, May 10 |
| State Regents Examinations | Paper-based | Tuesday, June 3 – Friday, June 26 | Make-up exams must occur during the administration window |

Only the Administration Dates and Make-up Dates are utilized as a basis for State-provided growth scores. For Regents Examinations, only results from January and June administration windows are utilized to calculate State-provided growth scores. Any assessments taken on ‘straggler’ make-up dates after the listed windows will **not** be included in State-provided growth results. Please see the [2018-19 Elementary- and Intermediate-level Testing Schedule](#) for more details.



Additional Resources

Further information about State-provided student growth scores are available at the NYSED.gov [“State Growth Measures Toolkits” page](#) and in the §3012-d APPR guidance document.

[Growth Resources on NYSED.gov State Growth Measures Toolkits](#)

A summary of the resources available at the NYSED.gov [“State Growth Measures Toolkits” page](#) website that support understanding and interpreting Growth Scores and Ratings are below:

- **Growth Scores Explained Video** – Provides a simplified explanation of how New York State calculated student growth based on state tests for the 2012-13 school year by looking at student performance from one year to the next and by comparing the change in a student’s performance to that of other students in the State with similar academic history and similar characteristics.
- **Teacher and Principal Guides** – Provide an in-depth explanation of how New York State calculates student growth based on state tests for teachers of grades 4-8 and principals of grades 4-8 and 9-12 in school year 2018-19 by comparing the current year scores of students with similar academic history and similar characteristics.
- **Teacher, Principal, and School Classification Rules** – Illustrate how growth measures are used to determine State-provided Growth Scores (0-20) and Growth Ratings (HEDI) for use in evaluations of math and ELA teachers of grades 4-8, principals of grades 4-8 and 9-12, and schools with students in grades 4-8 and 9-12.
- **Professional Development Turnkey Kit: Getting Smarter on State-Provided Student Growth Scores** - Explains to teachers and families how New York State calculated student growth based on state tests for the 2012-13 school year. The kit contains:
 - PowerPoint presentation and recorded webinar explaining: growth measures for math and ELA teachers in grades 4-8 and their principals, and growth measures for principals of grades 9-12;
 - Training script accompanying the PowerPoint presentation; and
 - Activity to practice interpreting sample scores and ratings.
- **Technical Report** – Provides a highly technical explanation of the statistical model used in New York State to calculate student growth based on state tests.

[NYSED APPR Guidance](#)

Guidance on [New York State’s Annual Professional Performance Review for Teachers and Principals to Implement Education Law §3012-d and the Commissioner’s Regulations](#) contains additional information about these measures. Details about how State-provided growth scores are calculated are included in Section D. Specific questions addressed in Section D that may be valuable include: D2, D9-D35, D85-D90, and D92-D93.