

#### The Role of Growth Scores in Annual Performance Reviews

As p\_st of the Annu\_hProfess on\_hPerform\_ace Rev ew (APPR) process pursu\_at to Educ\_t on L\_w §3012-d, New Yor St\_te te\_shers of m\_them\_t cs\_ad En\_l sh L\_a, u\_ae\_sts (ELA) n\_r\_des 4-8\_ad the r pr nc p\_ls w ll rece ve St\_te-prov ded rowth scores b\_sed on 2017-18 St\_te tests **for dv sor purposes onl** pursu\_at to Sect on 30-317 of the Rules of the Bo\_std of Re\_ents These rowth scores descr be how much students\_se\_row n\_s\_dem c\_ll n m\_them\_t cs\_ad ELA (\_s, me\_sured b\_the New Yor St\_te tests) comp\_sed to s m l\_f students st\_tew de

Dur n. the 2016-17 throu h 2018-19 school e\_s, te\_shers \_ad pr nc p\_ls who rece ve \_St\_te-prov ded \_rowth score ( e , r\_des 4-8 ELA \_ad m\_them\_t\_cs te\_shers \_ad pr nc p\_ls of schools th\_t\_ nclude \_r\_des 4-8 or \_ll of \_r\_des 9-12) w ll rece ve two sets of scores \_ad r\_t\_n s or \_n\_lscores \_ad r\_t\_n s \_ad tr\_as t on scores \_ad r\_t\_n s The St\_te-prov ded \_rowth score sh\_ll be excluded from the scores \_ad r\_t\_n s used to c\_lcul\_te the over\_ll tr\_as t on r\_t\_n Onl \_the tr\_as t on score \_ad r\_t\_n w ll be used for purposes of emplo ment dec s ons, nclud n. tenure determ n\_t\_ons\_ad for purposes of proceed n\_s under Educ\_t\_on L\_ws §§3020-\_ad 3020-b\_ad te\_sher\_ad pr nc p\_ls mprovement pl\_as\_ad the \_nd v du\_ls emplo ment record Dur n\_the 2016-17 throw h 2018-19 school \_e\_s, such pr nc p\_ls or \_n\_lover\_ll r\_t\_n w ll be used for \_dv sor \_purposes onl

St\_te-prov ded rowth scores \_Fe\_ust **one** of the **mult ple** me\_sures th\_t m\_e up the \_nnu\_hperform\_nce reviews For APPRs completed pursu\_nt to Eduction L\_w §3012-d, \_n eductor's over\_H composite r\_tn\_s determined us n\_\_m\_tr x th\_t combines \_\_r\_tn\_b\_sed on one or more me\_sures of student rowth \_s well \_s \_\_r\_tn\_b\_sed on princip\_hschool visits

#### Where and when will data be available?

St\_te-prov ded rowth scores for 2017-18 -re expected to be d str buted to d str cts in e\_rl September 2018

Where can I get more information?



# Why Growth?

All students enter the r te\_shers' cl\_ssrooms \_t d ffer n, levels of \_s\_dem c prof c enc or \_sh evement One w\_\_ to me\_s sure prof c enc s student perform\_ace on st\_ad\_xd zed\_ssessments B me\_sur n, the \_mount of pro, ress, or "\_s\_dem c rowth" \_student m\_es dur n, \_ ven school e\_s on these\_ssessments, we c\_a be, n to underst\_ad the nfluence of th\_tp\_st\_cul\_school e\_sexper ence on student le\_sn n, 2B me\_sur n, \_s\_dem c, rowth r\_ther th\_a prof c enc , we c\_a dent f stren, ths\_ad, \_ps n student pro, ress\_ad help pr nc p\_ls to better support students who h\_se\_w de r\_a, e of \_s\_dem c needs

Growth me\_sures for pr nc p\_ls n\_r\_des 4-8 prov de nform\_t on on the\_rowth of students for which the \_\_re respons ble comp\_red to students with simil\_t\_ch\_t\_\_gter stics\_\_gross the st\_te. This inform\_t on c\_n inform princ p\_ls' underst\_nd n\_of how, on \_\_yer\_ne, these students rew comp\_red to the ripeers

# **How Does New York State Measure Student Growth?**

The s mplest was to measure rowth would be to subtract astudent's test score in aprior easifrom his or her test score in the current easife, test score in sprin. 2018 minus test score in sprin. 2017) However, New Yor State's tests are not desired to allow for this indicated as need to allow for this indicated as the test scores are not compassible across rade levels. Nor would this approach account for astudent's station point ad other base round characteristics. Instead, New Yor State's approach is to compassible current easierores of similar students—that is, of students who had the same prior test scores and other characteristics—in order to measure rowth while account in for students' station, levels of an evenent.

This method, Illustrated in **F ure 1**, shows Student A (red student) with a ELA score of 320 in 2017<sup>4</sup> Compared to other students (solid blue students) who also had scores of 320 in 2017, Student A's ELA test score in 2018 was in the middle rapide when compared to those same students. We can deshaube Student A's rowth re3 (0)8 (17))1ecels ooPe for 0 in 6704507036n17)es



#### Factors Used to Define "Similar Students" in the Growth Model for 2017-18

For educ\_tor ev\_kl\_ton, we further ref ne the def n t on of s ml\_students to nclude\_dd t on\_kf\_stors nown to mp\_st student perform\_ace n order to better sol\_te the mp\_st of \_student's te\_sher on h s or her perform\_ace in the St\_te rowth model, the term "s ml\_s students" me\_as not onl students w th the s\_me\_s\_dem c h stor, but\_ko students w th the s\_me\_En\_l sh l\_a, u\_ae le\_sner (ELL), econom c d s\_dv\_at\_ae, or d s\_b l t\_st\_tuses\_t both the student\_ad cl\_ss-room levels T ble 1 d spl\_s spec f c f\_stors for e\_sh of these c\_te\_or es\_We\_scount for whether\_student s\_a ELL, for ex\_mple we\_kso\_scount for the percent\_ae of ELL students n\_student's ELA or m\_them\_t cs course Th s t\_pe of f\_stor s ntended to\_ddress peer effects, \_s nowled\_n\_th\_t t\_m\_be\_d fferent experience for \_student to be n\_cl\_ss or course w th m\_a ELL students (\_ad\_d fferent\_ob for\_a educ\_tor w th m\_a ELL students) th\_a t\_s to be n\_course w th fewer ELL students

Table 1. Factors Used to define "Similar Students" in 2017-18\*

	Up to three e-rs of student St-te ex-m scores, s-me subject Pr or-e-ntest score, d fferent subject Ret-ned northee Average pr or and evement and range appund average pr or score in student's course (s-me subject) New to school non-non-rst cultion e-rs(e), entered middle school and eoth or reder)
	New Yor State Enclish a Second Landae Ach evement Test (NYSESLAT) scores Percentae of ELLs in student's course ELL Status (les or no)
	Percent ne of economic Hild sudvent ned students in student's course Student economic disudvent ne student (es or no)
Disabilit es	Student with disublities spendin, less thup 40 percent of time invener Leduc Lion settin.  Percenture of students with disublities in student's course  Student with disublities studies or no)

<sup>\*</sup> In the future, \_dd t on\_hch\_f\_ster st cs m\_\_ be\_dded, or other ch\_f, es m\_\_ be m\_de to the rowth model, \_s\_pproved b the Bo\_fd of Relents

# How is Student Growth Used for 4-8 Principal Evaluation?

A school's or principlifs Stite-provided rowth ritin. (the HEDI ritin.) and rowth score (0–20) are bised on the "me in rowth percent le" or MGP, the arrest temesure of student rowth in the principlifs school An MGP is circulated by finding the series of all the SGPs for students attributed to aschool or principlify arross rides and subjects.

T ble 2 llustr\_tes how \_A MGP s c\_kul\_ted for \_school or pr nc p\_hb \_ver\_n n SGPs of students Students who do not meet the cont nuous enrollment requirement ( e , those who were not enrolled on BEDS d\_\_\_Ad on the first d\_\_ of the St\_te\_ssessment\_dm n str\_ton) \_re not ncluded n \_school's or pr nc p\_k's MGP<sup>5</sup> F n II , n MGP s reported onl f t s b sed on t le st 16 SGPs.

<sup>5</sup> Note that student In are rules are different and therefore MGPs are computed different. For teachers than the are for principles. Specifically, SGPs for students who were enrolled in ateacher's course for allow eriper od of time and who attended more revulual count more hear in a teacher's MGP than those who were enrolled and attended for less time. Students with less than 60 percent course enrollment are not included in a teacher's MGP. For more details and an example, see the Teacher's Guide to Interpret in State-Provided Growth Scores for Grades 4-8, which is a subject on the NYSED Growth Measures Tool its page.

 $\label{thm:count} \textbf{Table 2. Example of Students Who Count in a School's or Principal's MGP: Sample \ Data \\$ 

		MGP Calculat on	
-	Yes	Yes	4
Grad	ie		



All stast chackulations contain some uncertant. Although the reported MGP is the best est make for an iteration or principly we can also quantification of expectitions, such a specific that the true asswer lies. The upper-and lower-limit MGPs define a set of scores where note and educator's true MGP lies 95 percent of the time. Report noting upper-and lower-limit MGPs is similated the way other stast chackulations, such a political polls, are reported (existence), and date can be also all note that some of the time is stated by the state of the stage between the upper and lower limits) is affected by such factors as the number of students included in linear time score, the spread of student scores, and characteristics of the tests students the

We report the upper- ad lower-I m t MGPs because we want to be trasparent about the data. We also use upper- ad lower-I m t MGPs to as an educator rations in a way that fall the suncertant in MGPs into account. We use the overall dated MGP (that is, the MGP that combines information across all applicable rade levels ad subjects) and upper- ad lower-I m t MGPs to determine rowth rations, as shown in Figure 3. The rules for assignment of rowth rations, as shown in Figure 3. The rules for assignment of rowth rations, and teachers of rades 4–8 students.

A rowth score of 0-20 points is then ssined within eight rowth right, cities or (HEDI) using the scoring bands pre-



# Growth Ratings for Schools or Principals Serving Grades 4-8 & 9-12

To determ ne \_f n\_hSt\_te-prov ded \_rowth r\_t n\_ for schools or pr nc p\_ls who serve \_r\_des 4-8 \_hd \_r\_des 9-12, \_rowth r\_t n\_ s \_hd scores \_re determ ned for \_r\_des 4-8 \_hd \_r\_des 9-12 sep\_h\_tel \_hd then comb ned ^7 The \_r\_des 4-8 me\_sure \_rowth r\_t n\_ s determ ned us n\_ the process shown n F ure 3 Bec\_use mult ple \_r\_des 9-12 me\_sures ex st, \_rowth scores for e\_sh \_r\_des 9-12 me\_sure \_re \_ver\_hed to, ether \_hd then we \_hted b \_the number of students n e\_sh me\_sure to determ ne \_h over\_h \_r\_des 9-12 \_rowth r\_t n\_ \_hd score An over\_h \_rowth subcomponent r\_t n\_ th\_t \_ncludes results for both \_r\_des 4-8\_hd \_r\_des 9-12 students s then computed n the s\_me m\_hner b \_ver\_h n\_ \_r\_des 4-8\_hd \_r\_des 9-12 \_rowth scores b \_the number of students n e\_sh me\_sure \_hd f nd n\_ the f n\_hr\_t n\_ F \_ure 4 shows \_h ex\_mple of th s process

Rat ng Effect ve 16 435 18% 16 x 018 79 Rat ng/Growth Score Effect ve 82% 15 x 0 82 15 1.970 12 3 Rat ng/Growth Score Effect ve 2,405 100% 15 Rat ng/Growth Score , 1, . . . bc 

Figure 4. Determining Growth Ratings for Schools & Principals with Grades 4-8 & 9-12 Growth Measures

# **Information Available in District Files**

St\_te-provided rowth scores rem\_de\_v\_l\_ble to districts b. September e\_sh school e\_s or \_s soon \_s pr\_st c\_ble there\_fter Results \_se provided in sep\_s te f les for te\_shers, princip\_ls, \_sd schools. These f les cont\_sh the following form\_t on

- Number of Student Scores: The number of SGPs included in a MGP
- **Percent of Students Above the St te Med n:** Percent e of students bove the St te med a SGP n the relevant subject and ride, us no adjusted student SGPs
- Un djusted MGP (Pr nc p | or School): The me\_a of the SGPs for students | n | ed to \_pr nc p\_h(or school) b\_sed on pr or \_sh evement scores onl , w thout t\_a n | nto cons der\_a on ELL, students w th d s\_b|t es, or econom c student ch\_a ster st cs
- Un djusted MGP (Te cher): The we had me a of the SGPs for students who rettrouted to techer, besed on prior she evement scores only without to no not consider to nell, students with disabilities, or economic disabilities at the student characteristics. The we had me as calculated besed on the amount of time students were enrolled in additional course with techer.

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## **Questions for Consideration**

Follow n, \_re some guest ons to cons der \_s, ou rev ew our St\_te-prov ded rowth score nform\_ton

How much d d m students row, on werse, compsed to s m lastudents? Is this higher, lower, or shout what would have expected? Wh?

How does this information about student rowth and in with information about mile dership practice received through observations or other measures? While months this be?

How do m MGPs in these subjects compare? Whilm the besmlator different?

How do m MGPs comp\_re\_gross r\_de levels? Wh m, ht the besml\_f, or d fferent?

### **Information or Additional Questions**

If ou h ve quest ons bout our dt, whit the scores re used for, or who ureceved the score thit oudd, ple se contict our school's superintendent or district dit personnel for ssist nce. If unlike to obtain asswers to quest ons, contact educatore value nied ov

#### Disclaimer

If \_a d screp\_ac es ex st between the l\_a, u\_ae n these m\_ter\_ls\_ad the St\_tute, Re, ul\_tons, or APPR Gu d\_ace, the St\_tute, Re, ul\_tons, or APPR Gu d\_ace prev\_l