



Education Analytics INC.

DELAWARE STUDENT GROWTH MODEL

Understanding the 2019-20 Measure A Projections

Topics for Today

- Measure A – student growth model details
- How student growth model is developed
- 2019-20 projection model
- Student targets
- Teacher ratings

2019-20 Measure A – Student Growth Model

- Measures **student academic growth** based on state assessments in mathematics and ELA
- Uses statistical techniques to identify the **impact of educators' performance** on student achievement
- **Adjusts for context** such as prior student knowledge and other student characteristics

The Growth Model Applies To:

- Grades 4-8 (Mathematics and ELA)
- Students who have valid scores for the prior year (spring 2019) Smarter Balanced assessment

The Growth Model Adjusts For:

- Smarter Balanced assessment scale score from:
 - The prior year (Spring 2019)
 - Two years prior (Spring 2018)
 - Three years prior (Spring 2017)
- ELL Status
- Special Education Status

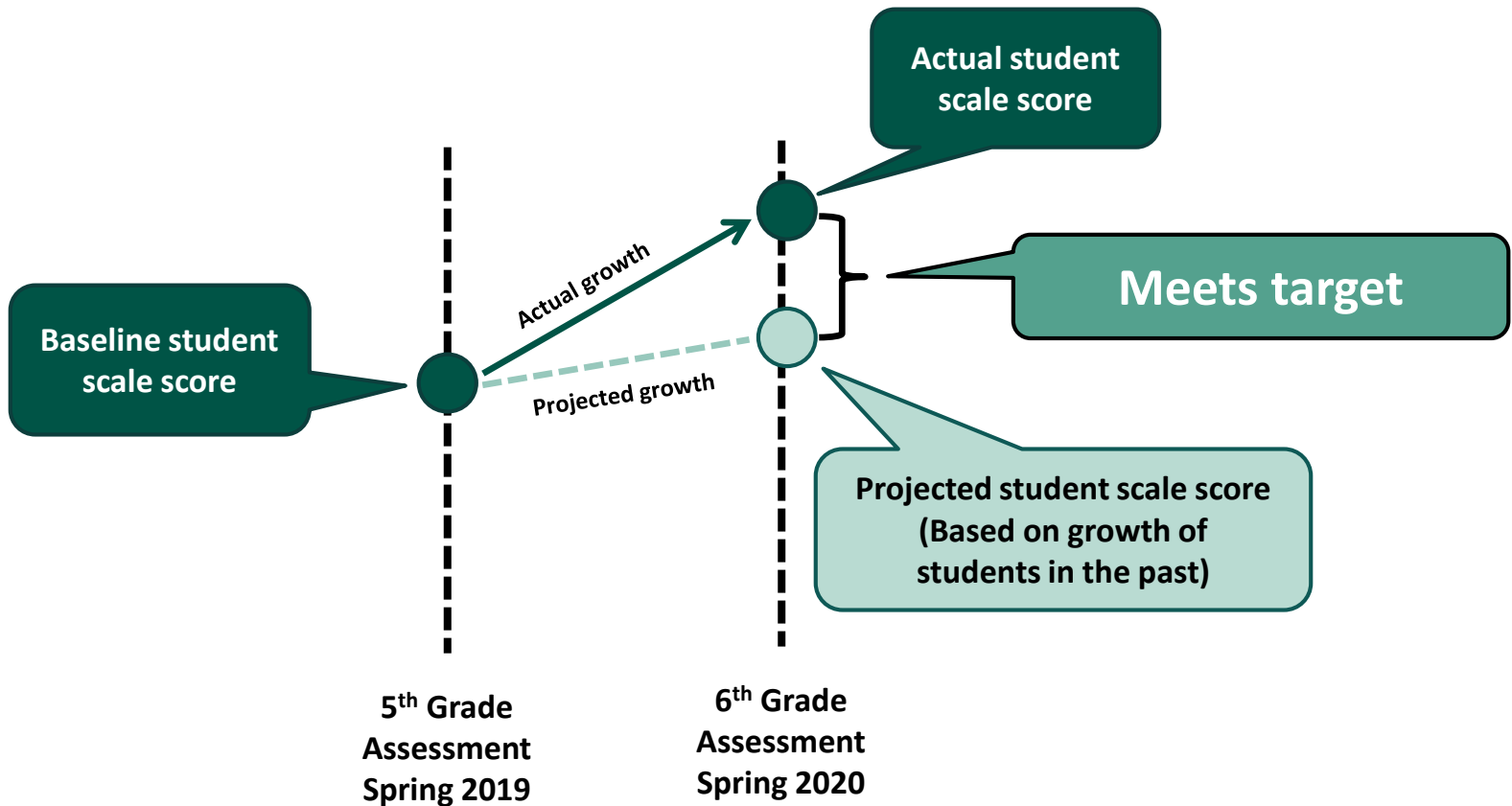
2019-20 Growth Model Summary

- Similarities to the 2018-19 growth model
 - The student growth model is similar in intent and coverage to last year's model.
 - The model is also longitudinal like last year's.
 - When the Smarter Balanced data is available for each student, we use multiple years of prior student achievement data
 - Increases the predictive power of the growth model
 - Multiple years of prior student achievement data are widely employed in growth models around the country

2019-20 Growth Model Summary

- Differences this year
 - Projections are provided earlier this year than in past years & will be updated in the winter
 - This means some students whose demographic data were missing during the summer run will not be included in the first round of Fall projections
 - We will update projections with missing students in the winter & share with the field then.

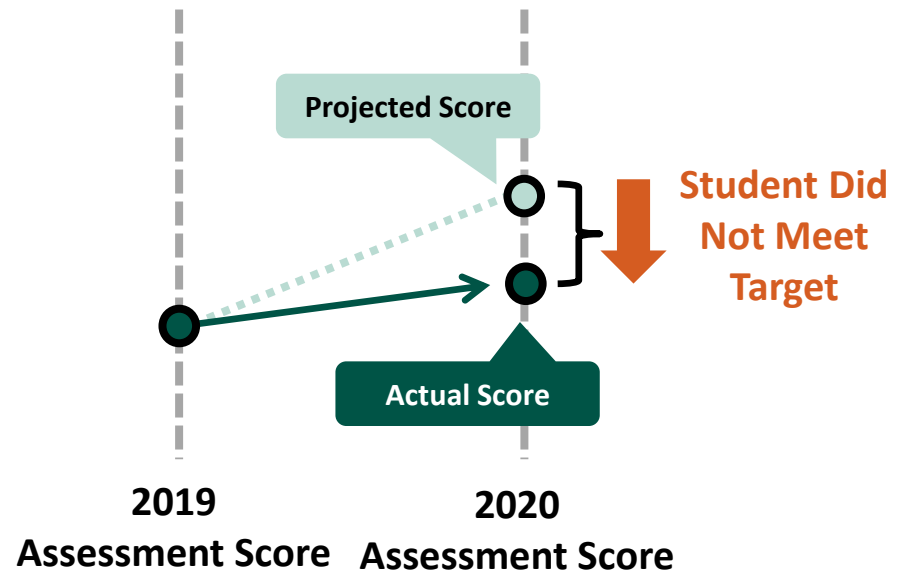
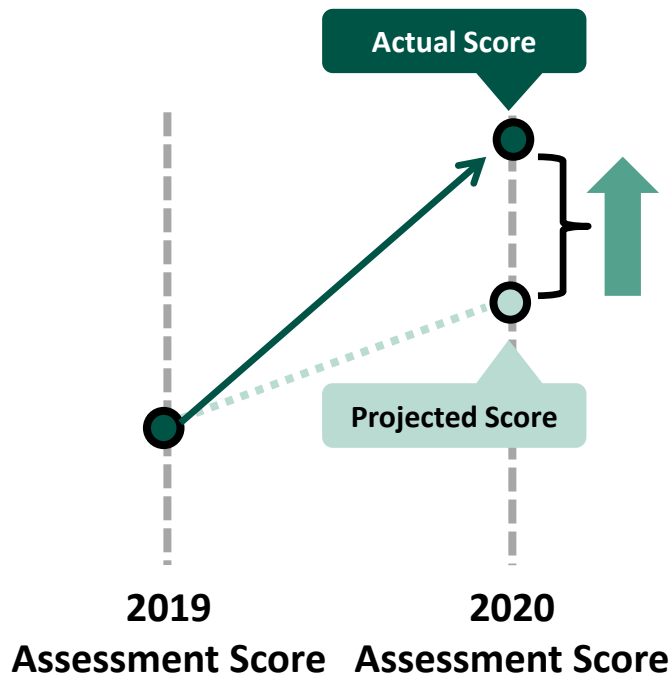
Visual Representation of Student Growth Model



How Are Ratings Calculated?

Delaware Student Growth Model

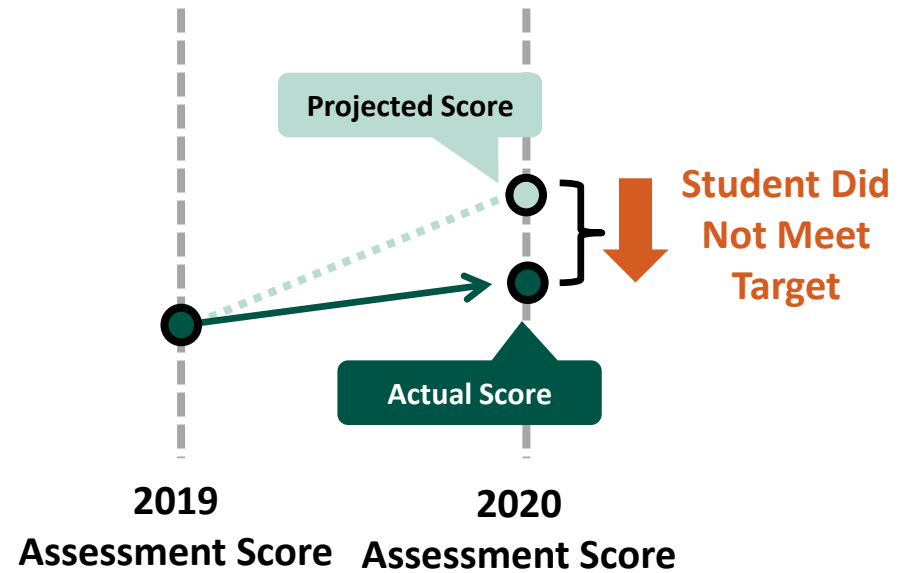
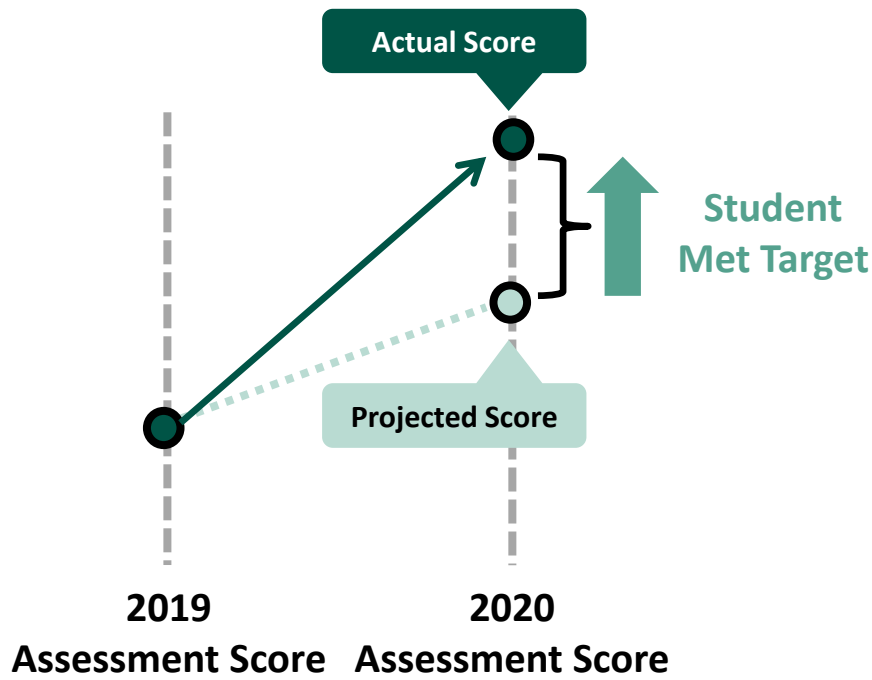
- Step 1: Determine if each **student** met/exceeded or did not meet target



How Are Ratings Calculated?

Name	Baseline	Projected	Actual	Outcome
Lee, I.	2796	2802	2807	Met or Exceeded

Name	Baseline	Projected	Actual	Outcome
Day, J.	2796	2802	2798	Did Not Meet



Percent of Students Meeting Targets

Delaware Student Growth Model

- Step 2: What percentage of an **educator's students** met or exceeded their targets?

Teacher A

Number met or exceeded	6
Total students	15
Percent met or exceeded	40%

Teacher B

Number met or exceeded	14
Total students	20
Percent met or exceeded	70%

Measure A - Teacher Ratings

Exceeds	Satisfactory	Unsatisfactory (w/ administrator discretion)	Unsatisfactory
65% or more of students in class met their growth targets	50-64% of students in class met their growth targets	35-49% of students in class met their growth targets	Less than 35% of students in class met their growth targets

Teacher Rating

Delaware Student Growth Model

- Step 3: Teacher rating based on percentage of students meeting or exceeding targets

Teacher A

Number met or exceeded	6
Total students	15
Percent met or exceeded	40%

**Unsatisfactory w/discretion
(35%-49%)**

Teacher B

Number met or exceeded	14
Total students	20
Percent met or exceeded	70%

**Exceeds
(65%+)**

Conclusion

- Measure A – Student Growth Model
 - Statistical Growth Model Techniques
 - Student Growth Targets
 - 2019-20: Targets are determined using three years of prior assessment data, when available, which increases the predictive power of the growth model.
 - Projections will be updated with missing students in the winter.
 - Teacher Ratings

Questions and Comments

- Please send any questions or comments to Dr. Seher Ahmad (Seher.Ahmad@doe.k12.de.us)

