## - E"a

Education Analytics inc.

## DELAWARE STUDENT GROWTH MODEL

Understanding the 2019-20 Measure A Projections

## Topics for Today

$\square$ Measure A - student growth model details
$\square$ How student growth model is developed
$\square$ 2019-20 projection model

- Student targets
$\square$ Teacher ratings


## 2019-20 Measure A - Student Growth Model

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

## The Growth Model Applies To:

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

## The Growth Model Adjusts For:

$\square$ Smarter Balanced assessment scale score from:

- The prior year (Spring 2019)
- Two years prior (Spring 2018)
- Three years prior (Spring 2017)
$\square$ ELL Status
$\square$ Special Education Status


## 2019-20 Growth Model Summary

$\square$ 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

$\square$ 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<br>Model

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



## How Are Ratings Calculated?



## Percent of Students Meeting Targets

Delaware<br>Student Growth<br>Model

$\square$ 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 | $\mathbf{4 0 \%}$ |

## Teacher B

Number met or exceeded 14
Total students20

Percent met or exceeded 70\%

## Measure A - Teacher Ratings

| Exceeds | Satisfactory | Unsatisfactory <br> (w/ administrator <br> discretion) | Unsatisfactory |
| :--- | :--- | :--- | :--- |
| 65\% or more <br> of students in <br> class met <br> their growth <br> targets | 50-64\% of <br> students in <br> class met their <br> growth targets | 35-49\% of <br> students in <br> class met their <br> growth targets | Less than $\mathbf{3 5 \%}$ <br> of students in <br> class met their <br> growth targets |

## Teacher Rating

Delaware<br>Student Growth<br>Model

$\square$ 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 | $\mathbf{4 0 \%}$ |

## Unsatisfactory w/discretion (35\%-49\%)

## Teacher B

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

## Exceeds <br> (65\%+)

## Conclusion

$\square$ 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

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


