Domain III: Closing Performance Gaps

Construction

- All Tests
- All Subjects
- All Grades
- Economically Disadvantaged Students Only
- Minimum Size: 40 Tests
- No Small-Numbers Analysis

Indicators*

- STAAR Satisfactory Standard
- STAAR Postsecondary Readiness Standard
- STAAR Advanced Standard

Calculation

- Calculate the Domain I score using assessment results from only the economically disadvantaged student group.
  - One Point for Each Percentage of Test Results at the Satisfactory Standard or Above
  - One Point for Each Percentage of Test Results at the Postsecondary Readiness Standard or Above
  - One Point for Each Percentage of Test Results at the Advanced Standard
  - Total Points Earned Divided by Total Possible Points (300)
- Calculate the predicted Domain I score (based on district or campus type and the percentage of economically disadvantaged) using the provided formulas for the appropriate district or campus type.
- The difference between the actual Domain I score and the predicted Domain I score is the Domain III score.

*Please see page 2 of Domain I methodology for additional information on inclusion of assessment results,

Formulas

- Based on slope-intercept form: $y = mx + b$
- Set using statewide data from the 2015–16 school year
- Targets for 2017–18 will be held constant based on the formulas derived from the 2016–17 assessment data
- Two Variables
  - y is the predicted Domain I score.
  - x is the percentage of students who are economically disadvantaged.
- Formulas by District and Campus Type

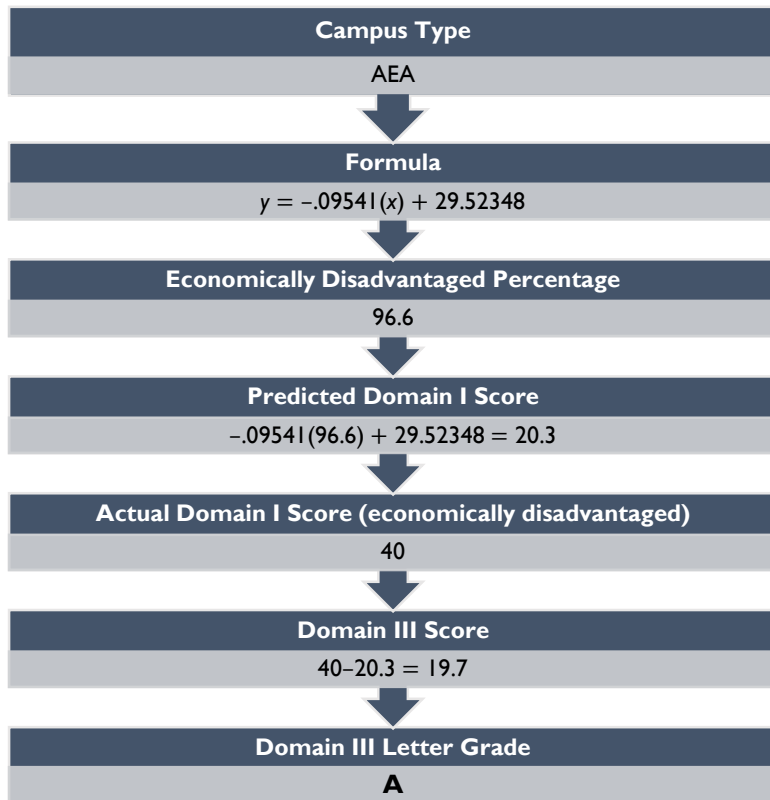|	
Elementary Campus	$y = -.10992x + 47.31887$
Middle School Campus	$y = -.18288x + 47.49244$
High School/K–12 Campus	$y = -.1281x + 46.78849$
AEA Campus	$y = -.09541x + 29.52348$
Non-AEA District	$y = -.15666x + 45.89303$
AEA District	$y = -.14709x + 34.41915$

Grade

- Calculating the Domain III score requires two data points:
  - The percentage of students who are economically disadvantaged in a campus or district
  - The specific type of campus or district
- Calculate the predicted Domain I score using percentage of economically disadvantaged and the appropriate formula.
- Calculate the actual Domain I score based on the results of students in the economically disadvantaged subgroup.
- Subtract the predicted Domain I score from the actual Domain I score to get the Domain III score.

Three Sample Calculations

1) Sample Elementary Campus

- Formula for an elementary school is $y = -.10992x + 47.31887$.
- Its percentage of economically disadvantaged students is 4.8.
- Plugging this number into the formula and rounding to the first decimal point gives $y = -.10992\,(4.8) + 47.31887 \rightarrow y = 46.8$.
- This campus's actual Domain I score for economically disadvantaged students is 39; subtracting the predicted from actual $39 - 46.8 = -7.8$.
- Using the chart of domain targets, we see that this campus has earned a Domain III letter grade of *D*.

2) Sample AEA Campus

Campus Type
AEA

↓

Formula
$y = -.09541(x) + 29.52348$

↓

Economically Disadvantaged Percentage
96.6

↓

Predicted Domain I Score
$-.09541(96.6) + 29.52348 = 20.3$

↓

Actual Domain I Score (economically disadvantaged)
40

↓

Domain III Score
$40 - 20.3 = 19.7$

↓

Domain III Letter Grade
A

3) Sample Non-AEA District

District Type
Non-AEA

↓

Formula
$y = -.15666(x) + 45.89303$

↓

Economically Disadvantaged Percentage
11.9

↓

Predicted Domain I Score
$-.15666(11.9) + 45.89303 = 44.0$

↓

Actual Domain I Score (economically disadvantaged)
34

↓

Domain III Score
$34 - 44.0 = -10.0$

↓

Domain III Letter Grade
F