Calculating the Texas STAAR® Progress Measure

In 2018, the STAAR® progress measure is available for reading in grades 4–8, mathematics in grades 4–8, Algebra I, and English II. Three steps are used to calculate the STAAR progress measure:

Step 1: Determine if the student should receive a STAAR progress measure.
Step 2: Compile the needed information to compute a STAAR progress measure.
Step 3: Compute STAAR progress measure.

Step 1: Determine if the student should receive a STAAR progress measure.

To receive a STAAR progress measure in 2018, a student must meet ALL of the following criteria within the same content area (mathematics, reading, or English):

- Has a valid score from the previous year and the current year.
- Has tested in successive grade levels or end-of-course (EOC) tests in the previous year and the current year. Students who took the same grade-level or EOC test in the previous year and the current year will not receive a progress measure. Students who take STAAR assessments and have skipped a grade level between the previous year and the current year will receive a progress measure.
- Has taken a STAAR (or STAAR A or STAAR L in December 2016) test in the previous year and a STAAR test in the current year.
- For STAAR reading assessments, has taken tests in the same language in the previous year and the current year (i.e., English or Spanish).
- For STAAR Algebra I and English II, has taken the test for the first time.

If a student does not meet one or more of these criteria, the student will not receive a STAAR progress measure. Some students may meet the criteria and receive a STAAR progress measure for one content area but not another.

Step 2: Compile the needed information to compute a STAAR progress measure.

To calculate the progress measure, the following student information is needed:

- Test information from the current year, including
  - Grade level
  - Content area (i.e., subject)
  - Test language (English or Spanish)
Step 3: Compute STAAR progress measure.

Use the “Guide to Computing STAAR Progress Measures” and the table on the following pages to calculate a student’s STAAR progress measure.
Guide to Computing STAAR Progress Measures

1. Raw score falls within the top score range (i.e., ≥ Max-2) on the current-year test?
   - Yes
   - No

2. Raw score ≤ Chance score on the current-year test?
   - Yes
   - No

3. Calculate gain score = current-year test scale score - previous-year test scale score

4. Less than Masters (or Advanced) performance level on the previous-year test (based on the standards in place in the previous year)?
   - Yes
   - No

5. Gain score ≥ A?
   - Yes
   - No

6. Gain score ≥ X?
   - Yes
   - No

7. Achieve Masters performance on the current-year test?
   - Yes
   - No

8. Gain score > B?
   - Yes
   - No

Levels:
- Limited Progress
- Expected Progress
- Accelerated

Note: Max, Chance, A, X, and B are defined in Table 1. Advanced performance level was used in the tests administered prior to 2017.
Table 1. Values Used to Compute STAAR Grades 3–8 Progress Measures

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<th>Language</th>
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Notes:
1. \(A\) is the distance or difference between the Meets cut scores on the current-year and the prior-year tests.
2. \(X\) is the distance or difference between the Masters cut scores on the current-year and the prior-year tests.
3. \(B\) is the distance or difference between the Masters cut score for current-year test and the Meets cut score for the prior-year test.
4. MAX is the maximum possible raw scores on the current-year test.
5. Chance score is the raw scores that could be reasonably attained through guessing alone. For all the tests listed here except for English II, chance is defined as ¼ of the multiple-choice questions (i.e., not including griddable questions for math tests). Chance on English II is defined as ¼ of the possible multiple-choice raw-score points, plus the weighted (\(x2\)) value associated with summed scores of 2 (e.g., 2 \(x\) 2 = 4) on the written composition. Chance Score is rounded to the smallest integer.

**Example: STAAR Grade 4 Reading**

**Step 1: Determine if the student should receive a STAAR progress measure.**

The student meets **ALL** of the criteria for reading.

- The student had a valid score for reading in 2017 and a valid score for reading in 2018.
- The student did not test in the same grade level (grade 3 in 2017 and grade 4 in 2018) in English reading.
- Both reading tests were STAAR tests.
- Both reading tests were in the same language (English).

Since the student meets all the criteria, the student will receive a progress measure in reading.

**Step 2: Compile the needed information to compute a STAAR progress measure.**

To calculate the progress measure, the following student information is needed:

- Test information from the current year, including
  - Grade level – 4
  - Content area – reading
  - Scale score – 1486\(^1\)
  - Raw score – 29

\(^1\) These numbers are used for illustration purpose only and they might not correspond to any scale score points from the 2018 STAAR grade 4 English reading and 2017 STAAR grade 3 English reading raw score to scale score conversion tables.
Performance level indicator for Masters – 0 (not reach the Masters level)

Test information from the previous year, including
- Grade level – 3
- Content area – reading
- Scale Score – 1331²
- Performance level indicator for Masters – 0 (not reach the Masters level)

Gain score = 1486 – 1331 = 155

Step 3: Compute the STAAR progress measure.

The following page illustrates how the student information from Step 2 and the values in Table 1 are used to determine the value of the STAAR progress measure.

² These numbers are used for illustration purpose only and they might not correspond to any scale score points from the 2018 STAAR grade 4 English reading and 2017 STAAR grade 3 English reading raw score to scale score conversion tables.
Guide to Computing STAAR Progress Measures

- Raw score falls within the top score range (i.e., ≥ Max-2) on the current-year test?
  - No, 29 is not in the range
  - Raw score ≤ chance score on the current-year test?
    - No, 29 is not in the range
    - Calculate gain score = current-year test scale score - previous-year test scale score
      - 1486 - 1331 = 155

Less than Masters

- Student’s performance level on the previous-year test (based on the standards in place in the previous year)?
  - Gain score ≥ A?
    - Yes, 155 > 82
  - No

Masters

- Gain score ≥ X?
  - No
  - Achieve Masters performance on the current-year test?
    - Yes

Limited Progress

Expected Progress

Accelerated Progress

Student has Expected Progress for grade 4 English reading

Note: Max, Chance, A, X, and B are defined in Table 1.