

## Calculating the Texas STAAR Progress Measure

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In 2016, the State of Texas Assessments of Academic Readiness (STAAR®) progress measure is available for reading in grades 4-8, mathematics in grades 4-8, Algebra I, and English II. There are three steps 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.**

In order to receive a STAAR progress measure in 2016, 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, STAAR L, or STAAR A test in the previous year and a STAAR, STAAR L, or STAAR A 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.

Note that students identified as limited English proficient (LEP) and tested in Spanish language test versions must also meet the criteria above. LEP students tested in English language test versions will only receive a STAAR progress measure if they are not eligible for the ELL progress measure.

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.

The following steps apply for students who took STAAR, STAAR L, or STAAR A tests.

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

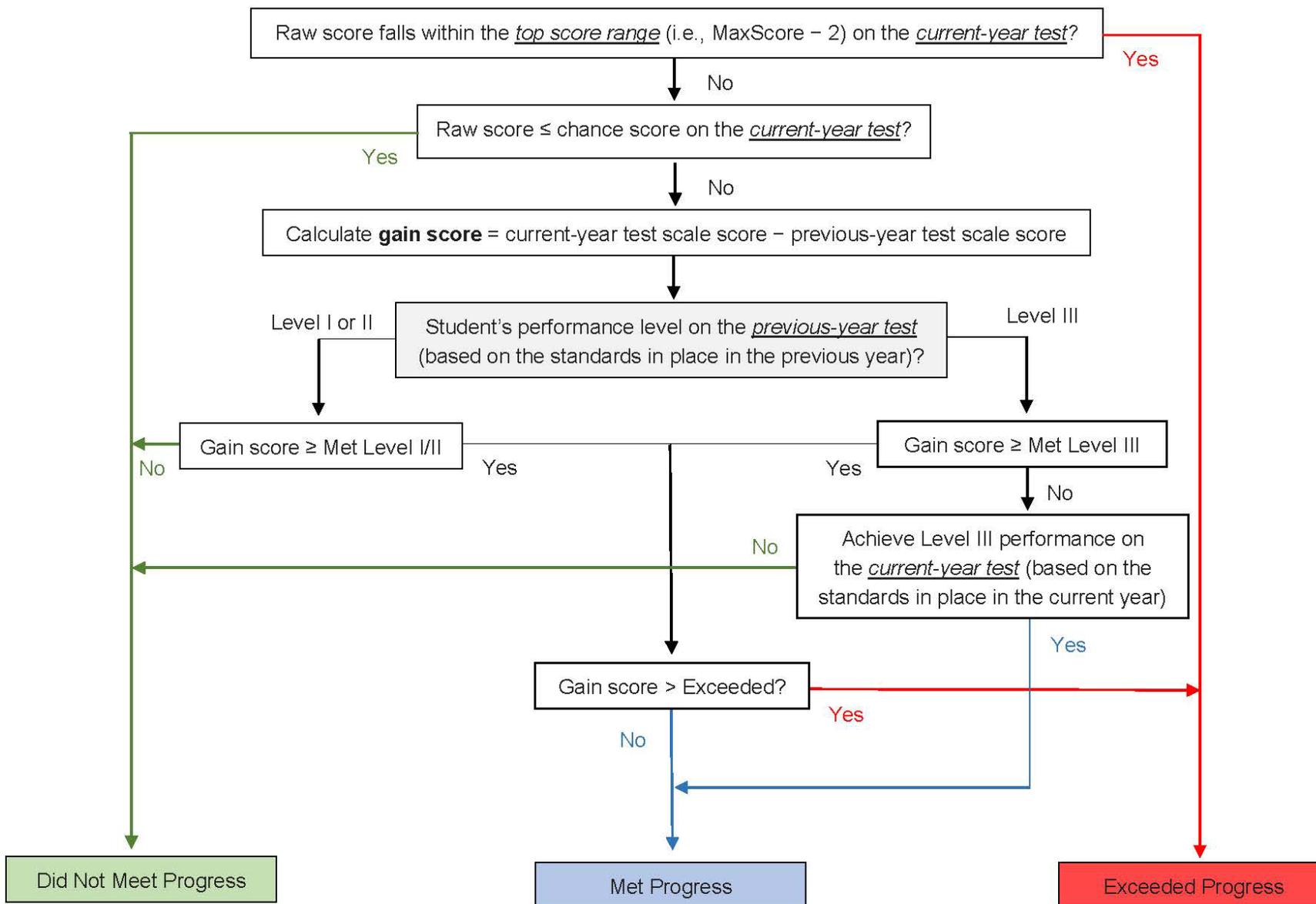
In order to calculate the progress measure, the following student information is needed:

- Test information from the current year, including
  - Grade level
  - Content area (i.e., subject)
  - Test language (English or Spanish)
  - Scale score
  - Raw score
  - Performance level (Level I, Level II, or Level III) based on the performance standards in place in the current year
- Test information from the previous year, including
  - Grade level
  - Content area (i.e., subject)
  - Test language (English or Spanish)
  - Scale score
  - Performance level (Level I, Level II, or Level III) based on the performance standards in place in the previous year
  - Gain score = Current-year scale score – Previous-year scale score

**Step 3: Compute STAAR progress measure.**

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

### Guide to Computing STAAR Progress Measures



**Table 1: Values for Computing STAAR Progress Measures**

Current Year Test	Previous Year Test	Met Level I/II <sup>1</sup>	Met Level III <sup>2</sup>	Exceeded <sup>3</sup>	Top Score Range <sup>4</sup>	Chance Score Range <sup>5</sup>
Grade 4 Mathematics <sup>6</sup>	Grade 3 Mathematics	103	74	184	46-48	0-11
Grade 5 Mathematics <sup>6</sup>	Grade 4 Mathematics	36	54	135	48-50	0-11
Grade 6 Mathematics	Grade 5 Mathematics	28	48	147	50-52	0-12
Grade 7 Mathematics	Grade 6 Mathematics	35	26	145	52-54	0-12
Grade 8 Mathematics	Grade 7 Mathematics	12	56	166	54-56	0-13
Algebra I	Grade 7 Mathematics	2312	2535	2645	52-54	0-12
Algebra I	Grade 8 Mathematics	2300	2479	2633	52-54	0-12
Grade 4 English Reading	Grade 3 English Reading	82	78	165	42-44	0-11
Grade 5 English Reading	Grade 4 English Reading	32	34	117	44-46	0-11
Grade 6 Reading	Grade 5 English Reading	47	51	136	46-48	0-12
Grade 7 Reading	Grade 6 Reading	45	35	124	48-50	0-12
Grade 8 Reading	Grade 7 Reading	26	30	109	50-52	0-13
Grade 4 Spanish Reading	Grade 3 Spanish Reading	95	104	192	42-44	0-11
Grade 5 Spanish Reading	Grade 4 Spanish Reading	43	65	162	44-46	0-11
English II	English I	0	140	831	90-92	0-18

**Note:** To calculate the STAAR progress measure targets for skipped grades, use the following rules:

- Met Level I/II is the sum of all the Met Level I/II values from the previous year grade level assessment to the current year grade level assessment (e.g. The Met Level I/II value for a student going from grade 3 English reading to grade 6 reading is  $161 = 82 + 32 + 47$ ).
- Met Level III is the sum of all the Met Level III values from the previous year grade level assessment to the current year grade level assessment (e.g. The Met Level III value for a student going from grade 3 English reading to grade 6 reading is  $163 = 78 + 34 + 51$ ).
- Exceeded is the sum of all the Met Level I/II values from the previous year grade level assessment to one year less than the current year grade level assessment plus the Exceeded value from one year less than the current year grade level assessment to the current year grade level assessment (e.g. The Exceeded value for a student going from grade 3 English reading to grade 6 reading is  $250 = 82 + 32 + 136$ ).

<sup>1</sup> Met Level I/II is the distance or difference between the final recommended Level II standards on the current-year and previous-year tests.

<sup>2</sup> Met Level III is the distance or difference between the Level III standards on the current-year and previous-year tests.

<sup>3</sup> Exceeded is the distance or difference between the current-year test Level III standard and the previous-year test final recommended Level II standard.

<sup>4</sup> Top Score Range is the range of the top three possible raw scores on the current-year test.

<sup>5</sup> Chance Score Range is the range of raw scores that could be reasonably attained through guessing alone. For reading and mathematics tests (including Algebra I), chance is defined as  $\frac{1}{4}$  of the multiple-choice questions (i.e., not including griddable questions). Chance on English II is defined as  $\frac{1}{4}$  of the possible multiple-choice raw-score points, plus the weighted (x3) value associated with summed scores of 2 on the essays, and scores of zero on the short answer questions.

<sup>6</sup> Applies for both English and Spanish mathematics.

## 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 2015 and a valid score for reading in 2016
- The student did not test in the same grade levels (grade 3 in 2015 and grade 4 in 2016) 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:

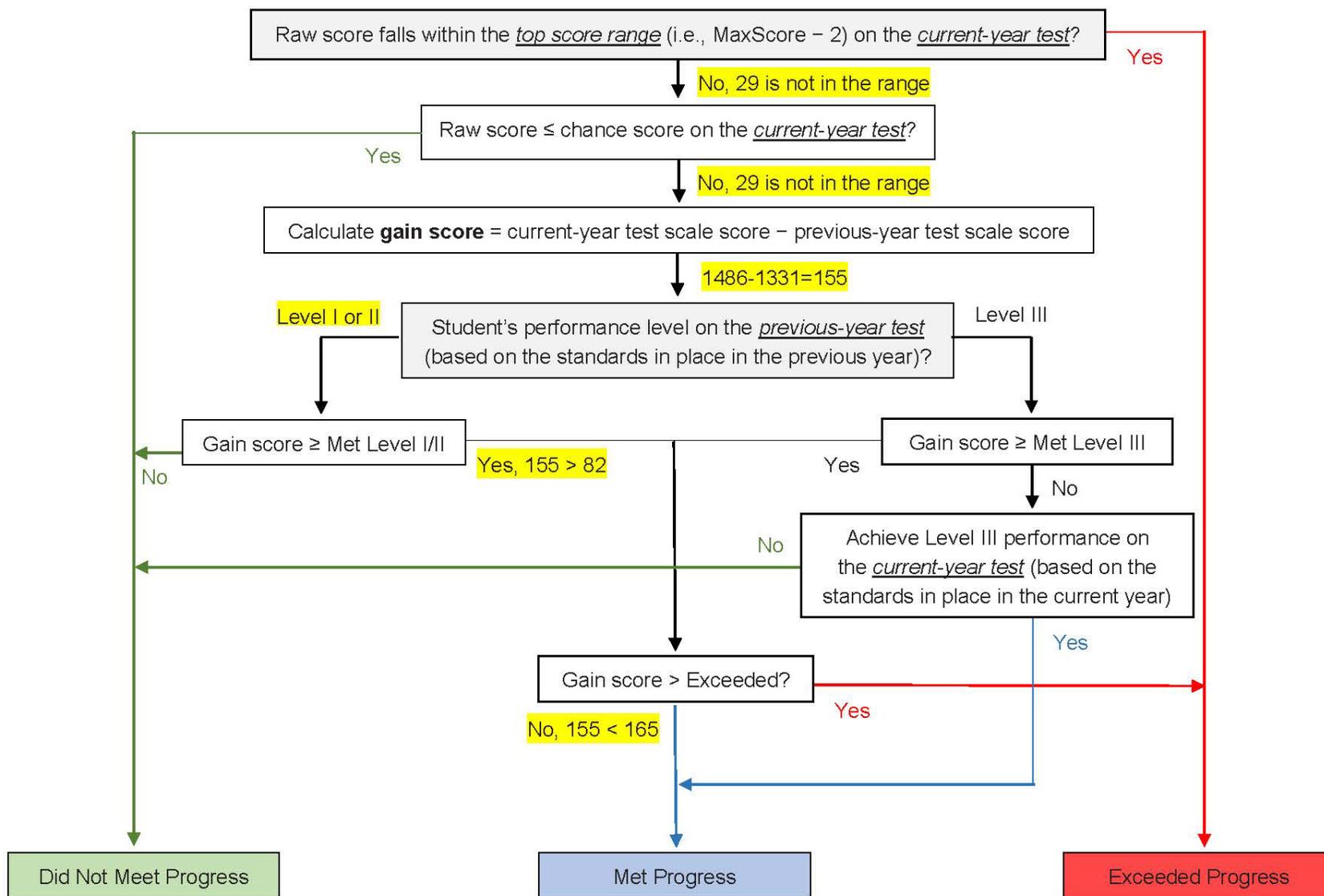
- Test information from the current year, including
  - Grade level – 4
  - Content area – reading
  - Scale score – 1486<sup>7</sup>
  - Raw score – 29
  - Performance level – Level II (based on 2015-2016 standards)
- Test information from the previous year, including
  - Grade level – 3
  - Content area – reading
  - Scale Score – 1331<sup>7</sup>
  - Performance Level – Level II (based on 2012-2015 standards)
- 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.

<sup>7</sup> These numbers are used for illustration purpose only and they might not correspond to any scale score points from the 2016 STAAR grade 4 English reading and 2015 STAAR grade 3 English reading raw score to scale score conversion tables.

Example: STAAR Grade 4 Reading (continued)



Student has Met Progress for grade 4 English reading