Calculating the 2021–2022 STAAR Progress Measure

The 2021–2022 State of Texas Assessments of Academic Readiness (STAAR®) progress measure is calculated based on a student's gain score—the scale score difference between the current year and the prior year. When 2020–2021 and 2021–2022 are referenced in the STAAR progress measure, they are "accountability years." An accountability year generally refers to the time frame from the previous June to the current May. Refer to the 2021–2022 STAAR Progress Measures Questions and Answers document for further information and exceptions.

During the 2021–2022 school year, STAAR progress measures are available for STAAR grades 4–8 English mathematics, grades 4–8 English reading, Algebra I, and English II, and STAAR grades 4–5 Spanish mathematics and grades 4–5 Spanish reading. Three steps are used to calculate the STAAR progress measure:

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

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

To receive a progress measure during the 2021–2022 school year, a student must meet **ALL** of the following criteria within the same grade/subject or course (mathematics, reading, Algebra I, or English II):

- The student has taken a STAAR assessment in 2020–2021 and a STAAR assessment in 2021–2022.
- The student has valid scores for 2020–2021 and 2021–2022.
- The student has tested in lower-grade or course levels in 2020–2021 than in 2021–2022. Students who took the same grade-level or EOC assessment in 2020–2021 and 2021–2022 will not receive a progress measure. Students who take STAAR assessments and have skipped grade levels between 2020–2021 and 2021–2022 will receive a progress measure.
- For STAAR reading assessments, the student has taken tests in the same language in 2020–2021 and 2021–2022 (i.e., English or Spanish).
- For STAAR English I in 2020–2021 and STAAR Algebra I and English II in 2021–2022, the

student took the test for the first time (did not take a retest).

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

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

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

- Test information from 2021–2022, including
    - grade level
    - content area (i.e., subject)
    - test language (English or Spanish)
    - scale score
    - raw score
    - performance level indicator for Masters
- Test information from 2020–2021, including
    - grade level
    - content area (i.e., subject)
    - test language (English or Spanish)
    - scale score
    - performance level indicator for Masters
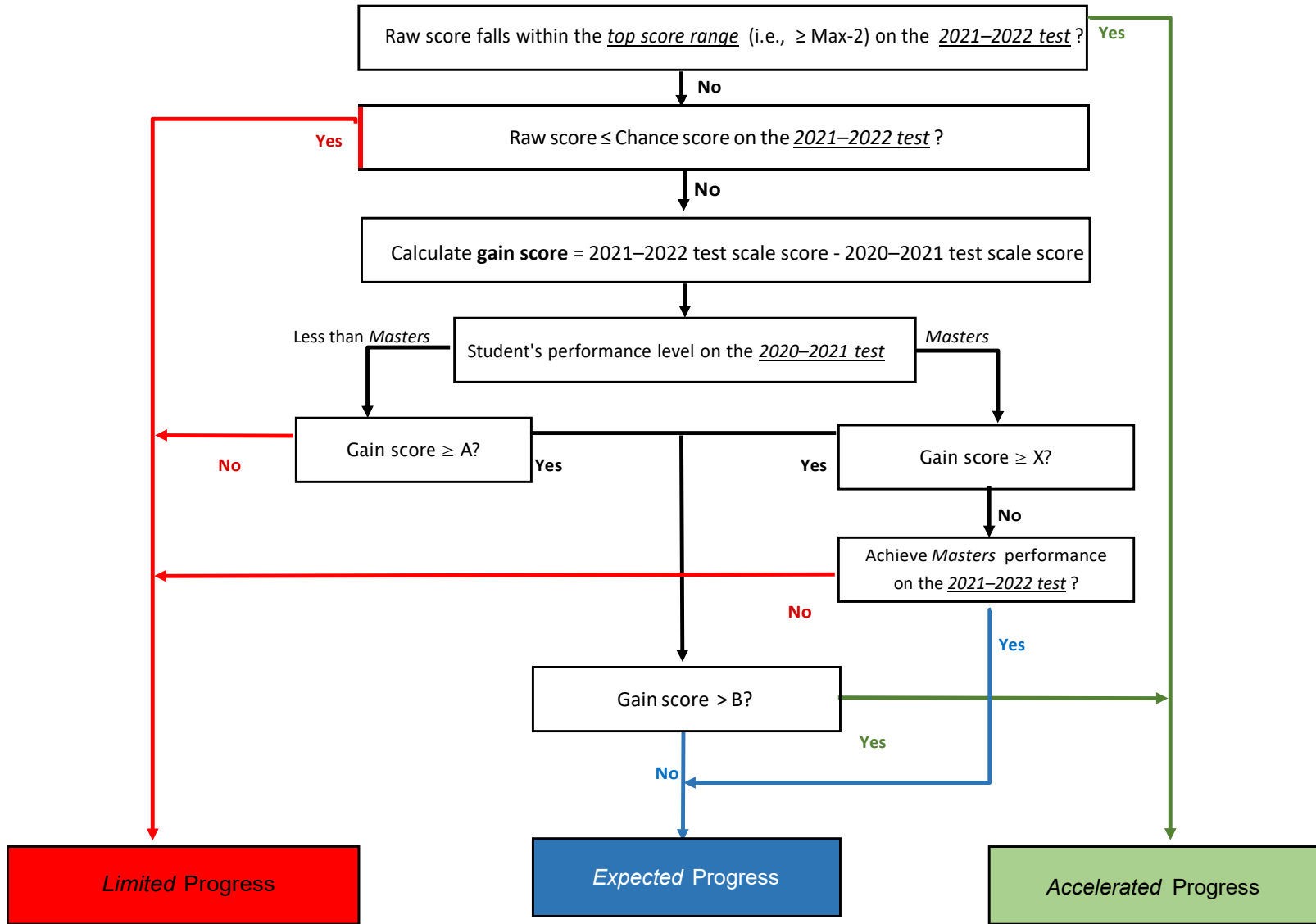- Gain score = 2021–2022 scale score – 2020–2021 scale score

If a student took the test in multiple grades (e.g., grade 6 math and grade 7 math), then the test score from the higher grade is used in the calculation.

For an EOC assessment, regardless of whether a student retested in English I in 2020–2021 or English II in 2021–2022, the scale scores of the student's first test attempt in English I and English II are used to calculate progress. Similarly, the first attempt of Algebra I in 2021–2022 is used to calculate the progress.

Step 3: Compute the progress measure.

Use the "Guide to Computing the STAAR Progress Measure", Table 1, and the example on the following pages to calculate a student's progress measure.

Guide to Computing the STAAR Progress Measure

Raw score falls within the *top score range* (i.e., ≥ Max-2) on the *2021–2022 test* ? → **Yes** → *Accelerated* Progress

No

Raw score ≤ Chance score on the *2021–2022 test* ? → **Yes** → *Limited* Progress

No

Calculate **gain score** = 2021–2022 test scale score - 2020–2021 test scale score

Student's performance level on the *2020–2021 test*

Less than *Masters* → Gain score ≥ A?

No → *Limited* Progress

Yes

Masters → Gain score ≥ X?

No → Achieve *Masters* performance on the *2021–2022 test* ?

No → *Limited* Progress

Yes → *Accelerated* Progress

Yes → Gain score > B?

Yes → *Accelerated* Progress

No → *Expected* Progress

Limited Progress

Expected Progress

Accelerated Progress

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

Table 1. Values Used to Compute the STAAR Grades 3–8 Progress Measure

Subject	Language	2021–2022 Grade/ Subject	2020–2021 Grade/ Subject	A[1]	X[2]	B[3]	MAX[4]	Chance[5]
Mathematics	English	8	7	12	56	166	42	9
Mathematics	English	8	6	47	82	201	42	9
Mathematics	English	8	5	75	130	229	42	9
Mathematics	English	8	4	111	184	265	42	9
Mathematics	English	8	3	214	258	368	42	9
Mathematics	English	7	6	35	26	145	40	9
Mathematics	English	7	5	63	74	173	40	9
Mathematics	English	7	4	99	128	209	40	9
Mathematics	English	7	3	202	202	312	40	9
Mathematics	English	6	5	28	48	147	38	8
Mathematics	English	6	4	64	102	183	38	8
Mathematics	English	6	3	167	176	286	38	8
Mathematics	English and Spanish	5	4	36	54	135	36	8
Mathematics	English and Spanish	5	3	139	128	238	36	8
Mathematics	English and Spanish	4	3	103	74	184	34	7
Reading	English	8	7	26	30	109	44	11
Reading	English	8	6	71	65	154	44	11
Reading	English	8	5	118	116	201	44	11
Reading	English	8	4	150	150	233	44	11
Reading	English	8	3	232	228	315	44	11
Reading	English	7	6	45	35	124	42	10
Reading	English	7	5	92	86	171	42	10
Reading	English	7	4	124	120	203	42	10
Reading	English	7	3	206	198	285	42	10
Reading	English	6	5	47	51	136	40	10
Reading	English	6	4	79	85	168	40	10
Reading	English	6	3	161	163	250	40	10
Reading	English	5	4	32	34	117	38	9
Reading	English	5	3	114	112	199	38	9
Reading	English	4	3	82	78	165	36	9
Reading	Spanish	5	4	43	65	162	38	9
Reading	Spanish	5	3	138	169	257	38	9
Reading	Spanish	4	3	95	104	192	36	9
Algebra I	English		Grade 3 Mathematics	2514	2737	2847	54	12
Algebra I	English		Grade 4 Mathematics	2411	2663	2744	54	12
Algebra I	English		Grade 5 Mathematics	2375	2609	2708	54	12

Table 1. Values Used to Compute the STAAR Grades 3–8 Progress Measure (Continued)

Subject	Language	2021–2022 Grade/ Subject	2020–2021 Grade/ Subject	A[1]	X[2]	B[3]	MAX[4]	Chance[5]
Algebra I	English		Grade 6 Mathematics	2347	2561	2680	54	12
Algebra I	English		Grade 7 Mathematics	2312	2535	2645	54	12
Algebra I	English		Grade 8 Mathematics	2300	2479	2633	54	12
English II	English		English I	0	140	831	68	17

Notes:

[1] A is the distance or difference between the Meets cut scale scores on the 2021–2022 and 2020–2021 tests.

[2] X is the distance or difference between the Masters cut scale scores on the 2021–2022 and 2020–2021 tests.

[3] B is the distance or difference between the Masters cut scale score on the 2021–2022 test and the Meets cut scale score on the 2020–2021 test.

[4] MAX is the maximum possible raw score on the current-year test.

[5] Chance is the raw score that could be reasonably attained through guessing alone on the 2021–2022 test. 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 weight (2) times the sum of the lowest non-zero score (1) students can get from each of the two raters (e.g., 2 X 2 = 4) on the written composition. Chance score is rounded to the smallest integer.

Example: STAAR Grade 5 Reading

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

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

- Both reading tests were STAAR tests.
- The student had a valid score for reading in 2020–2021 and a valid score for reading in 2021–2022.
- The student did not test in the same grade level (grade 3 in 2020–2021 and grade 5 in 2021–2022).
- 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 progress measure.

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

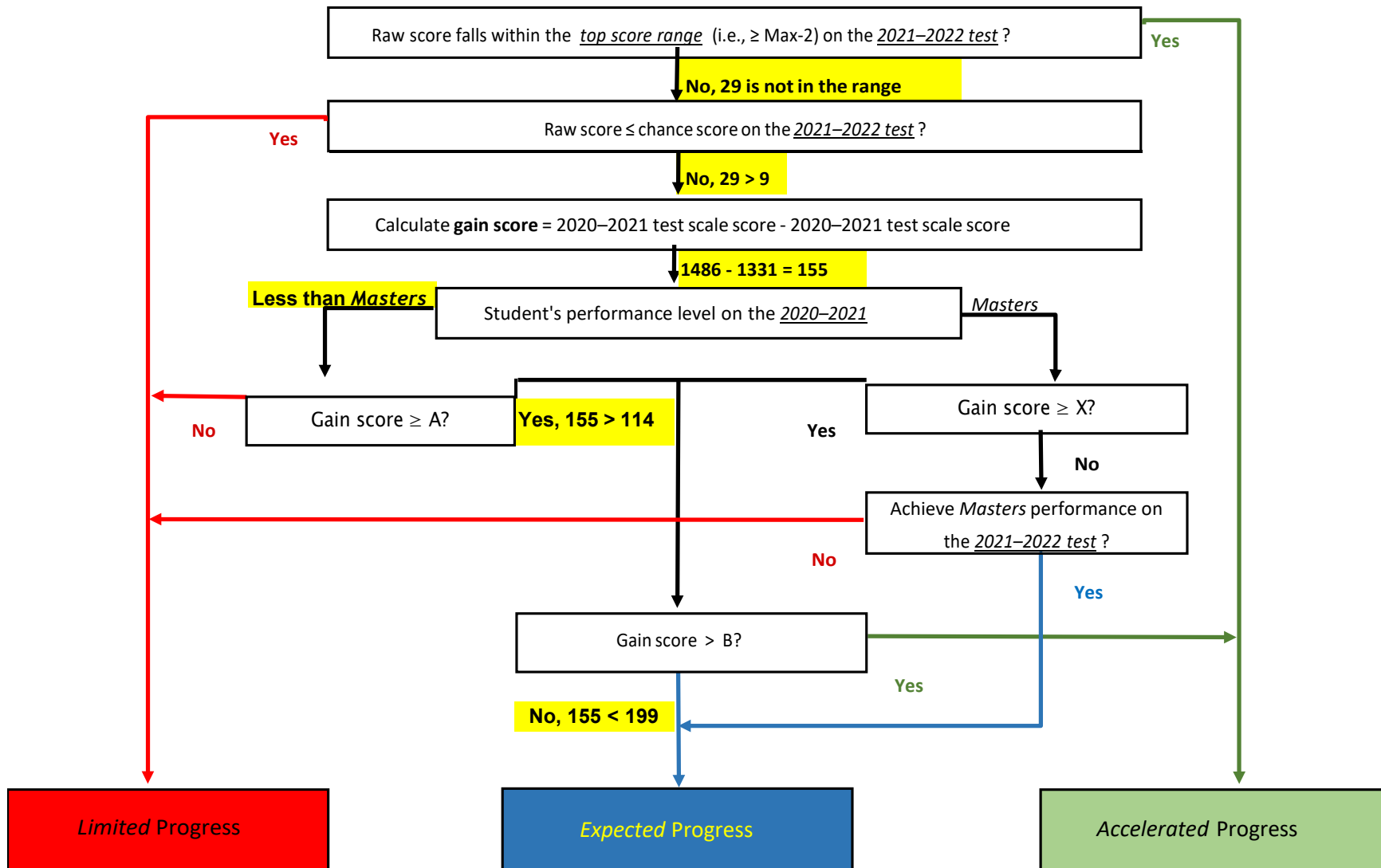- Test information from 2021–2022, including

- o grade level – 5
- o content area – reading
- o test language – English
- o scale score – 1486[1]
- o raw score – 29
- o performance level indicator for Masters – 0 (did not reach the Masters level)
- ■ Test information from 2020–2021, including
  - o grade level – 3
  - o content area – reading
  - o test language – English
  - o scale score – 1331[1]
  - o performance level indicator for Masters – 0 (did not reach the Masters level)
- ■ Gain score = 1486 – 1331 = 155

Step 3: Compute the 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 progress measure.

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[1] These numbers are used for illustration purposes only, and they might not correspond to any scale scorepoints from the 2021–2022 STAAR grade 5 English reading and 2020–2021 STAAR grade 3 English reading raw score to scale score conversion tables.

Example: STAAR Grade 5 Reading (continued)

Raw score falls within the *top score range* (i.e., ≥ Max-2) on the *2021–2022 test* ? — Yes

No, 29 is not in the range

Raw score ≤ chance score on the *2021–2022 test* ? — Yes

No, 29 > 9

Calculate **gain score** = 2020–2021 test scale score - 2020–2021 test scale score

1486 - 1331 = 155

Less than *Masters* — Student's performance level on the *2020–2021* — *Masters*

Gain score ≥ A? **Yes, 155 > 114** — No — Yes

Gain score ≥ X? — No

Achieve *Masters* performance on the *2021–2022 test* ? — Yes

Gain score > B? — Yes

No, 155 < 199 — No

Limited Progress

Expected Progress

Accelerated Progress

Student has Expected Progress for grade 5 English reading

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