



Governor's Office of
Student Achievement

CCRPI Single Score Calculation Guide

Contents

Single Score Calculation Business Rules.....	1
Calculation of CCRPI Single Scores for Schools with Single Grade Band	2
Calculation of CCRPI Single Score for School with Multiple Grade Bands	6
Calculation of CCRPI Single Score for District and State.....	7

Single Score Calculation Business Rules

1. GOSA employed the statistical program Stata® to calculate both the Single Scores and the Promise List. Due to Stata's precision while making these calculations, in particular anywhere rounding occurs, there may be minor differences if you were to use another program such as Excel to do the same. Stata works in binary, and stores data in float precision by default. Stata performs all calculations in double precision. For more information regarding precision in Stata, [click here](#).
2. GOSA employed a double rounding procedure when calculating Single Scores.
3. GOSA's Single Scores have undergone a three-tiered, multi-platform validation process to ensure accuracy.

Calculation of CCRPI Single Scores for Schools with Single Grade Band

1. Calculate a CCRPI score by the following grade bands:
 - a. Elementary (K-5)
 - b. Middle (6-8)
 - c. High (9-12)

2. If the *Content Mastery* component displays as ‘**Too Few Students**¹’ or ‘**Not Applicable**’, then the overall CCRPI score is ‘**Not Applicable**’.

3. If any other component shows ‘**Too Few Students**’ or ‘**Not Applicable**’, remove that component’s percentage points from the total percentage.
 - a. The denominator will reflect the total percentage points of present CCRPI components.
 - b. The missing CCRPI component’s corresponding percentage points will be subtracted from 100, and this total will become the new denominator.
 - i. e.g., A high school (9-12) has all CCRPI component scores except for Progress. The school’s CCRPI Score will no longer be out of 100%, as 30% of the score is missing. Therefore, the school’s CCRPI Score will be calculated out of 70% instead of 100%.
 - ii. The calculation for the example above will look as follows:

$$\left[\begin{array}{c} (30\%) \text{ Content Mastery} + \\ (10\%) \text{ Closing Gaps} + \\ (15\%) \text{ Readiness} + \\ (15\%) \text{ Graduation Rate} \\ \hline 70\% \end{array} \right]$$

4. Calculate the **CCRPI Score** using the following formulas:
 - a. Elementary/Middle
 - i. **ELA and/or Mathematics** progress included in the *Progress* component

$$\left(\frac{30.0\%(\text{Content Mastery component score}) + 35.0\%(\text{Progress component score}) + 15.0\%(\text{Closing Gaps component score}) + 20.0\%(\text{Readiness component score})}{\text{Total Percentage}} \right) * 100$$

- ii. **Only ELP Progress** in the *Progress* component

¹ Information is not reported on student groups with fewer than 15 students for reasons of confidentiality.

$$\left(\frac{40.5\%(\text{Content Mastery component score}) + 3.5\%(\text{Progress component score}) + 25.5\%(\text{Closing Gaps component score}) + 30.5\%(\text{Readiness component score})}{\text{Total Percentage}} \right) * 100$$

b. High

i. *ELA and/or Mathematics* progress in the *Progress* component

$$\left(\frac{30.0\%(\text{Content Mastery component score}) + 30.0\%(\text{Progress component score}) + 10.0\%(\text{Closing Gaps component score}) + 15.0\%(\text{Readiness component score}) + 15.0\%(\text{Graduation Rate component score})}{\text{Total Percentage}} \right) * 100$$

ii. **Only ELP Progress** in the *Progress* component

$$\left(\frac{36.75\%(\text{Content Mastery component score}) + 3.0\%(\text{Progress component score}) + 16.75\%(\text{Closing Gaps component score}) + 21.75\%(\text{Readiness component score}) + 21.75\%(\text{Graduation Rate component score})}{\text{Total Percentage}} \right) * 100$$

5. Numerator

a. Elementary/Middle

i. *ELA and/or Mathematics* progress included in the *Progress* component:

1. Multiply the *Content Mastery* component score by 30.0%.
 - a. Round to one (1) decimal place.
2. Multiply the *Progress* component score by 35.0%.
 - a. Round to one (1) decimal place.
3. Multiply the *Closing Gaps* component score by 15.0%.
 - a. Round to one (1) decimal place.
4. Multiply the *Readiness* component score by 20.0%.
 - a. Round to one (1) decimal place.

5. Sum the four values together.
 - a. This value represents the CCRPI score numerator for elementary and middle.

ii. **Only** *ELP Progress* in the *Progress* component:

1. Multiply the *Content Mastery* component score by 40.5%.
 - a. Round to one (1) decimal place.
2. Multiply the *Progress* component score by 3.5%.
 - a. Round to one (1) decimal place.
3. Multiply the *Closing Gaps* component score by 25.5%.
 - a. Round to one (1) decimal place.
4. Multiply the *Readiness* component score by 30.5%.
 - a. Round to one (1) decimal place.
5. Sum the four values together.
 - a. This value represents the CCRPI score numerator for elementary and middle.

b. High

i. *ELA and/or Mathematics* progress in the *Progress* component:

1. Multiply the *Content Mastery* component score by 30.0%.
 - a. Round to one (1) decimal place.
2. Multiply the *Progress* component score by 30.0%.
 - a. Round to one (1) decimal place.
3. Multiply the *Closing Gaps* component score by 10.0%.
 - a. Round to one (1) decimal place.
4. Multiply the *Readiness* component score by 15.0%.
 - a. Round to one (1) decimal place.
5. Multiply the *Graduation Rate* component score by 15.0%.
 - a. Round to one (1) decimal place.
6. Sum the four values together.
 - a. This value represents the CCRPI score numerator for high.

ii. **Only** *ELP* in the *Progress* component:

1. Multiply the *Content Mastery* component score by 36.75%.
 - a. Round to one (1) decimal place.
2. Multiply the *Progress* component score by 3.0%.
 - a. Round to one (1) decimal place.
3. Multiply the *Closing Gaps* component score by 16.75%.
 - a. Round to one (1) decimal place.
4. Multiply the *Readiness* component score by 21.75%.
 - a. Round to one (1) decimal place.
5. Multiply the *Graduation Rate* component score by 21.75%.
 - a. Round to one (1) decimal place.
6. Sum the four values together.

a. This value represents the CCRPI score numerator for high.

6. **Denominator:** Sum weighted percentages of available components.

7. Calculate the **CCRPI Score** [(numerator/denominator)*100].

a. Round and display to one (1) decimal place.

b. These values represent the *CCRPI Score* displayed in the *CCRPI Reporting System*.

Calculation of CCRPI Single Score for School with Multiple Grade Bands

1. Calculate the *CCRPI Single Score* using the formula:
[% elementary enrollment (elementary CCRPI score)] +
[% middle enrollment (middle CCRPI score)]+
[% high enrollment (high CCRPI score)]

2. Count the school's unduplicated student enrollment count at each grade band (include all students with an enrollment record at any time during the year).
 - a. Elementary = enrollment for grades K-5
 - b. Middle = enrollment for grades 6-8
 - c. High = enrollment for grades 9-12

3. Calculate the school's total student enrollment count – unduplicated at the single school level (include all students with an enrollment record at any time during the year).

4. Calculate the percentage of enrollment by grade band by dividing the school's enrollment count at each grade band by the school's total enrollment count.
 - a. Round and display to two (2) decimal places.
 - b. If a grade band (elementary, middle, or high) has a '**Not Applicable**' CCRPI score, remove enrollment numbers for this grade band from the school's total enrollment count when calculating a single score.

5. Sum proportional points
 - a. Multiply the grade band enrollment percentage by the CCRPI score for each grade band.
 - a. Round and display to one (1) decimal place.
 - b. The resulting values are the proportional points by grade band.
 - c. Add the proportional points by grade band.
 - d. The sum is the single score for the school.
 - i. Round and display to one (1) decimal place.
 - ii. These values represent the *CCRPI Single Score* displayed in the *CCRPI Reporting System*.

Calculation of CCRPI Single Score for District and State

1. Apply the same calculation and scoring methodology utilized at the school level for indicator and component calculations, except where noted.
2. Where a **‘Not Applicable’** CCRPI score exists, do not remove the enrollment numbers from district or state scores for schools unless there is a **‘Not Applicable’** for the entire grade band at the district or state level.
3. Use enrollment proportional weights for district scores.
4. Calculate CCRPI scores for the district and state levels using the following grade bands:
 - a. Elementary (K-5)
 - b. Middle (6-8)
 - c. High (9-12)