

## Weighted Average Achievement Index Calculation: SAMPLE

### ELA Performance Index: Weighted Average Achievement

| 2018 ELA Performance Index                    |  |                                    |                        |         |         |         |         |                                  |
|---|--|------------------------------------|------------------------|---------|---------|---------|---------|----------------------------------|
| Continuously Enrolled Tested & Not Tested (e) | 95% of Continuously Enrolled Tested & Not Tested (f) | Continuously Enrolled & Tested (g) | Greater of (f) and (g) | Level 1 | Level 2 | Level 3 | Level 4 | Estimated Weighted Average Index |
| 164   | 156  | 134                                | 156                    | 55      | 61      | 13      | 5       | 63.78                            |

$$PI = \frac{[L2 + (2 \times L3) + (2.5 \times L4)]}{\text{The greater of: number of continuously enrolled students who are tested OR 95\% of continuously enrolled student with or without test scores}} \times 100$$

**Step 1:** Input numbers of students who achieved Levels 2, 3 and 4 into the numerator of the formula. Input the greater of columns (f) and (g) into the denominator.

$$PI = \frac{[61 + (2 \times 13) + (2.5 \times 5)]}{156} \times 100$$

**Step 2:** Multiply the students who achieved level 3 by 2. Multiply the students who achieved Level 4 by 2.5.

$$PI = \frac{[61 + (26) + (12.5)]}{156} \times 100$$

**Step 3:** Add the numbers in the numerator. Divide this by the number in the denominator. Multiply the answer by 100. This is your PI score.

$$PI = \frac{[99.5]}{156} \times 100 = 63.78$$

ELA Performance Index (PI) : 63.78

District: \_\_\_\_\_

School: \_\_\_\_\_

Subgroup: \_\_\_\_\_

**Math Performance Index: Weighted Average Achievement**

| 2018 Math Performance Index                   |  |                                    |                        |         |         |         |         |                                  |
|---|--|------------------------------------|------------------------|---------|---------|---------|---------|----------------------------------|
| Continuously Enrolled Tested & Not Tested (e) | 95% of Continuously Enrolled Tested & Not Tested (f) | Continuously Enrolled & Tested (g) | Greater of (f) and (g) | Level 1 | Level 2 | Level 3 | Level 4 | Estimated Weighted Average Index |
| 164   | 156  | 131                                | 156                    | 81      | 38      | 9       | 3       | 40.71                            |

$$PI = \frac{[L2 + (2 \times L3) + (2.5 \times L4)]}{\text{The greater of: number of continuously enrolled students who are tested OR 95\% of continuously enrolled student with or without test scores}} \times 100$$

**Step 1:** Input numbers of students who achieved Levels 2, 3 and 4 into the numerator of the formula. Input the greater of columns (f) and (g) into the denominator.

$$PI = \frac{[38 + (2 \times 9) + (2.5 \times 3)]}{156} \times 100$$

**Step 2:** Multiply the students who achieved level 3 by 2. Multiply the students who achieved Level 4 by 2.5.

$$PI = \frac{[38 + (18) + (7.5)]}{156} \times 100$$

**Step 3:** Add the numbers in the numerator. Divide this by the number in the denominator. Multiply the answer by 100. This is your PI score.

$$PI = \frac{[63.5]}{156} \times 100 = 40.71$$

**Math Performance Index (PI) : 40.71**

District: \_\_\_\_\_

School: \_\_\_\_\_

Subgroup: \_\_\_\_\_

**Science Performance Index: Weighted Average Achievement**

| 2018 Science Performance Index                |  |                                    |                        |         |         |         |         |                                  |
|---|--|------------------------------------|------------------------|---------|---------|---------|---------|----------------------------------|
| Continuously Enrolled Tested & Not Tested (a) | 95% of Continuously Enrolled Tested & Not Tested (b) | Continuously Enrolled & Tested (c) | Greater of (b) and (c) | Level 1 | Level 2 | Level 3 | Level 4 | Estimated Weighted Average Index |
| 84  | 80   | 68                                 | 80                     | 16      | 25      | 25      | 2       | 100.00                           |

$$PI = \frac{[L2 + (2 \times L3) + (2.5 \times L4)]}{\text{The greater of: number of continuously enrolled students who are tested OR 95\% of continuously enrolled student with or without test scores}} \times 100$$

**Step 1:** Input numbers of students who achieved Levels 2, 3 and 4 into the numerator of the formula. Input the greater of columns (b) and (c) into the denominator.

$$PI = \frac{[25 + (2 \times 25) + (2.5 \times 2)]}{80} \times 100$$

**Step 2:** Multiply the students who achieved level 3 by 2. Multiply the students who achieved Level 4 by 2.5.

$$PI = \frac{[25 + (50) + (5)]}{80} \times 100$$

**Step 3:** Add the numbers in the numerator. Divide this by the number in the denominator. Multiply the answer by 100. This is your PI score.

$$PI = \frac{[80]}{80} \times 100 = 100.00$$

**Science Performance Index (PI) : 100.00**

District: \_\_\_\_\_

School: \_\_\_\_\_

Subgroup: \_\_\_\_\_

**Weighted Average Achievement Index:**

$$WAA = \frac{ELA [L2 + (2xL3) + (2.5xL4)] + Math [L2 + (2xL3) + (2.5xL4)] + Science [L2 + (2xL3) + (2.5xL4)]}{ELA Denominator + Math Denominator + Science Denominator} \times 100$$

Directions: Input all information for ELA, Math and Science. For “Numerator”, input the numerator from step 3 for each calculation. For “Denominator” input the denominator from step 3 for each calculation. For “Performance Index”, write your calculated PI for each subject. Once all boxes for ELA, Math and Science are completed, add the numerators and the denominators. Divide the total numerator over the total denominator and multiply by 100. This is your Weighted Average Achievement Index.

| Weighted Average Achievement Index |  |                                    |                        |         |         |         |         |                    |                      |                                    |
|------------------------------------|--|------------------------------------|------------------------|---------|---------|---------|---------|--------------------|----------------------|------------------------------------|
| Subject                            | 95% of Continuously Enrolled Tested & Not Tested (a) | Continuously Enrolled & Tested (b) | Greater of (a) and (b) | Level 1 | Level 2 | Level 3 | Level 4 | Numerator (Step 3) | Denominator (Step 3) | Performance Index (PI) (N/D) x 100 |
| ELA                                | 156  | 134                                | 156                    | 55      | 61      | 13      | 5       | 99.5               | 156                  | 63.78                              |
| Math                               | 156  | 131                                | 156                    | 81      | 38      | 9       | 3       | 63.5               | 156                  | 40.71                              |
| Science                            | 80   | 60                                 | 80                     | 16      | 25      | 25      | 2       | 80                 | 80                   | 100.00                             |
|                                    |  |                                    |                        |         |         |         | SUM     | 243                | 392                  | 61.98<br>(W.A.A.)                  |

**Weighted Average Achievement Index: 62**

*This same procedure is used to calculate the Core Subject Performance (CSP) Index. The WAA and CSP are then used to calculate the Composite Performance Achievement Rank and Level. The same ELA and Math PIs are also used in Measurements of Interim Progress and compared to school/district and state MIPs.*