

## Component Grades

### ***Background***

State law requires the Ohio Department of Education to issue six component grades to schools and districts beginning with the 2016 report cards. The six graded components include:

1. Achievement
2. Progress
3. Gap Closing
4. K3 Literacy Improvement
5. Prepared for Success
6. Graduation Rate

The Ohio Administrative Code (OAC) 3301-28-09 describes the methodology used to calculate each component grade. Three of the six components (Achievement, Graduation Rate and Progress) have multiple measures that are combined to get the component grades. For two components (Gap Closing and K-3 Literacy), their measures (AMO and K-3 Literacy Improvement, respectively) are the component grade. The final component (Prepared for Success) is unique in that it is comprised of a series of ungraded measures that are aggregated to produce a component grade.

This document will outline how the measure grades and ungraded Prepared for Success data are aggregated to get the six component grades. Additional technical documents exist for each of the ten measures that contribute to the components. For more information on how each of the measure grades are calculated, please refer to the respective technical documents.

### **Weighting and General Rules for All Calculations**

The state board of education determined the weighting that each measure contributes to the component. The weighting is as follows:

- **Achievement** includes the Performance Index Score weighted at 75%, and the Indicators Met measure weighted at 25%.
- **Graduation Rate** includes the 4-year Graduation Rate weighted at 60%, and the 5-Year Graduation Rate weighted at 40%.
- **Progress** includes the Overall Value-Added weighted at 55%, Gifted Value-Added weighted at 15%, Students with Disabilities Value-Added weighted at 15%, and Students in the Lowest 20% of Statewide Achievement Value-Added weighted at 15%.

If a school/district has only one measure in the Achievement or Graduation Rate component, then that one graded measure contributes 100% to the component. If neither measure is graded, then the component also is not graded. For Progress, if fewer than four measures are graded, the remaining measures are used in the same proportion to issue the component grade. If the school or district has no value-added grades, then the Progress component also remains ungraded.

The component grades are assigned by converting the measure grades to points using the tables shown below and calculating a weighted average of points earned which translates into a component letter grade. For example, if the range for an "A" is 90% to 100%, a high "A" of 100% would earn more points than a low "A" of 90%.

It is important to understand, that for each component calculation, even those where there is just one measure, the percentage still will be converted to points based on where the grade falls within the range. This is because the components eventually will be aggregated to assign an overall grade to the school or district so points are needed for all six components. More details for each component are found on the pages below.

# Achievement Component

## Measures Included

1. Indicators Met
2. Performance Index Score

## Weights\*

1. Indicators Met contributes 25% to the Achievement Component Grade
2. Performance Index Score contributes 75% of the Achievement Component Grade

\*If a school/district has only one measure, then that one graded measure is used for the component. If neither measure is graded, then the component also is not graded.

<b>Indicators</b>		
<b>Percent to Points Conversion</b>		
Measure Grade Scale	Percentage	Points
90%-100% – A	>=97.5% to 100%	5
	>=95% but <97.5%	4.75
	>=92.5 but <95%	4.5
	>=90% but <92.5%	4.25
80%-89.9% – B	>=87.5% but <90%	4
	>=85 but <87.5%	3.75
	>=82.5% but <85%	3.5
	>=80% but <82.5%	3.25
70%-79.9% – C	>=77.5% but <80%	3
	>=75% but <77.5%	2.75
	>=72.5% but <75%	2.5
	>=70% but <72.5%	2.25
50%-69.9% – D	>=65% but <70%	2
	>=60% but <65%	1.75
	>=55% but <60%	1.5
	>=50% but <55%	1.25
<50% – F	>=37.5% but <50%	1
	>=25% but <37.5%	0.75
	>=12.5% but <25%	0.5
	>=0% but <12.5%	0

<b>PI Score</b>		
<b>Percent to Points Conversion</b>		
Measure Grade Scale	Percentage	Points
90%-100% – A	>=95% to 100%	5
	>=92.5% but <95%	4.75
	>=91 but <92.5%	4.5
	>=90% but <91%	4.25
80%-89.9% – B	>=87.5% but <90%	4
	>=85 but <87.5%	3.75
	>=82.5% but <85%	3.5
	>=80% but <82.5%	3.25
70%-79.9% – C	>=77.5% but <80%	3
	>=75% but <77.5%	2.75
	>=72.5% but <75%	2.5
	>=70% but <72.5%	2.25
50%-69.9% – D	>=65% but <70%	2
	>=60% but <65%	1.75
	>=55% but <60%	1.5
	>=50% but <55%	1.25
<50% – F	>=40% but <50%	1
	>=30% but <40%	0.75
	>=15% but <30%	0.5
	>=0% but <15%	0

## Component Grade Scale

Achievement Component Grade Assignment	
Points	Letter Grade
4.125 – 5.000	A
3.125 – 4.124	B
2.125 – 3.124	C
1.125 – 2.124	D
0 – 1.124	F

## Example of Calculation

Measure	Weighted Points	Component Points
Indicators Met	$84.7\% = 3.5 \text{ Points} \times 0.25 \text{ weight}$	0.875 points
PI Score	$91.5\% = 4.5 \text{ points} \times 0.75 \text{ weight}$	3.375 points
<b>Total</b>		4.25 points = "A" Component grade

Measure	Weighted Points	Component Points
Indicators Met	$87.2\% = 3.75 \text{ Points} \times 0.25 \text{ weight}$	0.9375 points
PI Score	$89.9\% = 4.0 \text{ points} \times 0.75 \text{ weight}$	3.0 points
<b>Total</b>		3.9375 points = "B" Component grade

# Graduation Component

## Measures Included

1. 4-year Graduation Rate
2. 5-Year Graduation Rate

## Weights\*

1. 4-year Graduation Rate contributes 60% to the Graduation Component Grade
2. 5-Year Graduation Rate contributes 40% of the Graduation Component Grade

\*If a school/district has only one measure, then that one graded measure is used for the component. If neither measure is graded, then the component also is not graded.

## Percentage to Points Scale

4-Year Graduation Percentage to Points		
Measure Grade Scale	Percentage	Points
93% - 100% - A	>=98.25% to 100%	5
	>=96.5% but <98.25%	4.75
	>=94.75% but <96.5%	4.5
	>= 93% but <94.75%	4.25
89% - 92.9% - B	>=92% but <93%	4
	>=91% but <92%	3.75
	>=90% but <91%	3.5
	>=89% but <90%	3.25
84% - 88.9% - C	>=87.75% but <89%	3
	>=86.5% but <87.75%	2.75
	>=85.25% but <86.5%	2.5
	>=84% but <85.25%	2.25
79% - 83.9% - D	>=82.75% but <84%	2
	>=81.5% but <82.75%	1.75
	>=80.25% but <81.5%	1.5
	>=79% but <80.25%	1.25
<79% - F	>=59.25% but <79%	1
	>=39.5% but <59.25%	0.75
	>=19.75% but <39.5%	0.5
	>=0% but < 19.75%	0

5-Year Graduation Percentage to Points		
Measure Grade Scale	Percentage	Points
95% - 100% - A	>=98.75% to 100%	5
	>=97.5% but <98.75%	4.75
	>=96.25% but <97.5%	4.5
	>=95% but <96.25%	4.25
90% - 94.9% - B	>=93.75% but <95%	4
	>=92.5% but <93.75%	3.75
	>=91.25% but <92.5%	3.5
	>=90% but <91.25%	3.25
85% - 89.9% - C	>=88.75% but <90%	3
	>=87.5% but <88.75%	2.75
	>=86.25% but <87.5%	2.5
	>=85% but <86.25%	2.25
80% - 84.9% - D	>=83.75% but <85%	2
	>=82.5% but <83.75%	1.75
	>=81.25% but <82.5%	1.5
	>=80% but <81.25%	1.25
<80% - F	>=60% but <80%	1
	>=40% but <60%	0.75
	>=20% but <40%	0.5
	>=0% but <20%	0

## Component Grade Scale

Graduation Component Grade Assignment	
Points	Letter Grade
4.125 – 5.000	A
3.125 – 4.124	B
2.125 – 3.124	C
1.125 – 2.124	D
0 – 1.124	F

## Examples of Calculation

Measure	Weighted Points	Component Points
4-Year Rate	95.2% = 4.5 Points x 0.60 weight	2.7 Points
5-Year Rate	92.0% = 3.5 points x 0.40 weight	1.4 Points
<b>Total</b>		<b>4.10 points = "B" Component grade</b>

Measure	Weighted Points	Component Points
4-Year Rate	81.6% = 1.75 Points x 0.60 weight	1.05 Points
5-Year Rate	89.2% = 3 points x 0.40 weight	1.2 Points
<b>Total</b>		<b>2.25 points = "C" Component grade</b>

## Gap Closing Component

### Measure Included

1. AMO Measure

### Weights\*

1. The AMO Measure contributes 100% to the Gap Closing Component Grade

\*If a school/district has no AMO measure grade, then there is no Gap Closing component grade.

### Percentage to Points Scale

AMO Percentage to Points		
Measure Grade Scale	Percentage	Points
90% - 100% - A	>=97.5% to 100%	5
	>=95% but <97.5%	4.75
	>=92.5 but <95%	4.5
	>=90% but <92.5%	4.25
80% 89.9% - B	>=87.5% but <90%	4
	>=85% but <87.5%	3.75
	>=82.5% but <85%	3.5
	>=80% but <82.5%	3.25
70% - 79.9% - C	>=77.5% but <80%	3
	>=75% but <77.5%	2.75
	>=72.5% but <75%	2.5
	>=70% but <72.5%	2.25
60% - 69.9% - D	>=67.5% but <70%	2
	>=65% but <67.5%	1.75
	>=62.5% but <65%	1.5
	>=60% but <62.5%	1.25
<60% - F	>=45% but <60%	1
	>=30% but <45%	0.75
	>=15% but <30%	0.5
	>=0% but <15%	0

## Component Grade Scale

Gap Closing Component Grade Assignment	
Points	Letter Grade
4.125 – 5.000	A
3.125 – 4.124	B
2.125 – 3.124	C
1.125 – 2.124	D
0 – 1.124	F

## Examples of Calculation

Measure	Weighted Points	Component Points
AMO Measure	$42.5\% = 0.75 \text{ points} \times 1.0 \text{ weight}$	0.75 points
<b>Total</b>		<b>0.75 points = "F" Component grade</b>

Measure	Weighted Points	Component Points
AMO Measure	$84.2\% = 3.5 \text{ points} \times 1.0 \text{ weight}$	3.5 points
<b>Total</b>		<b>3.5 points = "B" Component grade</b>



## ***Progress Component***

### **Measures Included**

1. Overall Value-Added
2. Gifted Value-Added
3. Students with Disabilities Value-Added
4. Lowest 20% Value-Added

### **Weights\***

Because there are more than two measures and the weighting is not equal, the percentage that each contributes to the component must be adjusted in cases where there are two or three graded value-added measures. When all four measures exist, the percentages are as follows:

1. Overall Value-Added contributes 55% to the Progress Component Grade
2. Gifted Value-Added contributes 15% to the Progress Component Grade
3. Students with Disabilities Value-Added contributes 15% to the Progress Component Grade
4. Lowest 20% Value-Added contributes 15% to the Progress Component Grade

\*Note that a school/district will never have a subgroup grade unless it also has an Overall grade.

If three grades exist the percentages are as follows:

1. Overall Value-Added contributes 63.25% to the Progress Component Grade
2. Subgroup 1 contributes 18.375% to the Progress Component Grade
3. Subgroup 2 contributes 18.375% to the Progress Component Grade

\*Note that a school/district will never have a subgroup grade unless it also has an Overall grade.

If two grades exist the percentages are as follows:

1. Overall Value-Added contributes 71.5% to the Progress Component Grade
2. Subgroup 1 contributes 28.5% to the Progress Component Grade

\*Note that a school/district will never have a subgroup grade unless it also has an Overall grade.

In cases where no subgroup grades exist, the Overall grade will also be the component grade. If a school or district has no measures with grades, then the Progress Component also is not graded.

### **Additional Rules**

Per Ohio law, the Progress Component grade cannot be an "A" unless all subgroup measure grades are "B" or higher. If the subgroup is not graded (NR) then it does not affect the component grade and will not affect the "B or higher rule". In cases where the 'preliminary' number of points total 4.125 or higher, and one or more subgroups has earned a "C", "D" or "F" grade, points will be deducted to take the 'final' number of points down to 4.124 (the highest number of points in the "B" range) and a grade of "B" will be

assigned. Note that the exact number of points to be deducted will vary based on where the school or district falls within the “A” range.

### Gain Index to Points Scale

Subgroup Gain Index to Points	Letter Grade	Points
+2 or greater	A	5
Greater or equal to +1 but less than +2	B	4
Greater or equal to -1 but less than +1	C	3
Greater or equal to -2 but less than -1	D	2
Less than -2	F	1

### Component Grade Scale

Progress Component Grade Assignment	
Points	Letter Grade
4.125 – 5.000	A
3.125 – 4.124	B
2.125 – 3.124	C
1.125 – 2.124	D
0 – 1.124	F

### Example – 55% weight to Overall and 15% each weight to Sub-Group VA (4 VA grades)

Measure	Weighted Points	Component Points
Overall	+2.75 Gain Index = 5 points x .55 weight	2.75 Points
SWD	+1.72 Gain Index = 4 Points x .15 weight	0.6 Points
Low 20%	-0.89 Gain index = 3 points x .15 weight*	0.45 Points
Gifted	-4.24 = 1 points x .15 weight*	0.15 Points
<b>Total</b>		<b>3.95 Points = B Grade*</b>
<i>*In this example, the number of points does not place the school or district in the “A” range so no demotion is required.</i>		

**Example – 63.25% weight to Overall and 18.375% each weight to Sub-Group VA (3 VA grades)**

Measure	Weighted Points	Component Points
Overall	+2.75 Gain Index = 5 points x .6325 weight	3.1625 Points
First Subgroup	+1.72 Gain Index = 4 Points x .18375 weight	0.735 Points
Second Subgroup	-0.89 Gain index = 3 points x .18375 weight*	0.55125 Points
<b>Total</b>		<b>4.44875 Points = A Grade*</b>
<i>*A subgroup has a grade lower than "B" so points must be deducted to demote the final grade to the top of the "B" range.</i>		<b>4.44875 – 0.32475 = 4.124 = B Grade</b>

**Example – 71.5% weight to Overall and 28.5% each weight to Sub-Group VA (2 VA grades)**

Measure	Weighted Points	Component Points
Overall	+2.75 Gain Index = 5 points x .715 weight	3.575 Points
First Subgroup	-1.72 Gain Index = 4 Points x .285 weight*	1.14 Points
<b>Total</b>		<b>4.715 Points = A Grade</b>
<i>*All subgroup grades are "B" or higher so no deduction of points is made and the "A" grade is awarded.</i>		

## K-3 Literacy Component

### Measure Included

1. K-3 Literacy Improvement Measure

### Weights\*

1. The K-3 Literacy Improvement Measure contributes 100% to the K-3 Literacy Component Grade

\*If a school/district has no K-3 measure grade, then there is no K-3 component grade.

### Percentage to Points Scale

The grade scale for the K-3 Literacy Improvement measure changes annually because state law says that the state average percentage of improvement is the bottom of the “C” range. The table shown below was created using the ranges set for the 2018 report card.

2018 K-3 Literacy Percentage to Points (using 2017 Average)		
Measure Grade	Percentage	Points
78.3% to 100% = A	>=94.6% to 100%	5
	>=89.2% but <94.6%	4.75
	>=83.8% but <89.2%	4.5
	>=78.3% but <83.8%	4.25
56.6% to 78.2% = B	>=72.9% but <78.3%	4
	>=67.5% but <72.9%	3.75
	>=62.0% but <67.5%	3.5
	>=56.6% but <62.0%	3.25
34.9% to 56.5% = C	>=51.1% but <56.6%	3
	>=45.7% but <51.1%	2.75
	>=40.3% but <45.7%	2.5
	>=34.9% but <40.3%	2.25
13.2% to 34.8% = D	>29.4% but <34.9%	2
	>=24.0% but <29.4%	1.75
	>=18.6% but <24.0%	1.5
	>=13.2% but <18.6%	1.25
0% to 13.1% = F	>=9.9% but <13.2%	1
	>=6.6% but <9.9%	0.75
	>=3.3% but <6.6%	0.5
	0% but <3.3%	0

## Component Grade Scale

K3 Component Grade Assignment	
Points	Letter Grade
4.125 – 5.000	A
3.125 – 4.124	B
2.125 – 3.124	C
1.125 – 2.124	D
0 – 1.124	F

## Examples of Calculation

Measure	Weighted Points	Component Points
K-3 Measure	42.5% = 2.5 points x 1.0 weight	2.5 points
<b>Total</b>		<b>2.5 points = "C" Component grade</b>

Measure	Weighted Points	Component Points
K-3 Measure	84.2% = 4.5 points x 1.0 weight	4.5 points
<b>Total</b>		<b>4.5 points = "A" Component grade</b>

## ***Prepared for Success Component***

### **Measures Included**

The Prepared for Success Component is calculated using a series of ungraded measures. The denominator of the calculation includes all students in the denominators of the 4-year and 5-year graduation rates. A student must do one or more of the following to be in the numerator:

1. Earn a remediation free score on all parts of the ACT or SAT
2. Earn an honors diploma
3. Earn an industry-recognized credential

Bonus points are awarded if the student earns one of the above in addition to completing one of the following:

1. Earns a three or higher on at least one AP exam
2. Earns a four or higher on at least one IB exam
3. Earns at least three college credits before leaving high school

### **Weights\***

2. The Prepared for Success measures are ungraded, but are used to calculate the Component Grade

\*If a school/district has no Prepared for Success measures with data, then there is no Prepared for Success component grade.

## Percentage to Points Scale

The Prepared for Success component grade scale increases in each of the next three years. Because of this, the “percentage to points” conversion table also will change. Shown below is the table that will be used in 2017 to award points for this component. Note that this table shows the COMPONENT grade scale – not the measure grade scale.

Prepared for Success Percentage to Points – 2017 Only		
Measure Grade Scale	Percentage	Points
93% to 100% = A	>=98.3% to 100%	5
	>=96.5% but <98.3%	4.75
	>=94.8% but <96.5%	4.5
	>=93% but <94.8%	4.25
75% to 92.9% = B	>=88.5% but <93.0%	4
	>=84.0% but <88.5%	3.75
	>=79.5% but <84.0%	3.5
	>=75% but <79.5%	3.25
60% to 74.9% = C	>=71.3% but <75.0%	3
	>=67.5% but <71.3%	2.75
	>=63.8% but <67.5%	2.5
	>=60.0% but <63.8%	2.25
40% to 59.9% = D	>=55% but <60%	2
	>=50% but <55%	1.75
	>=45% but <50%	1.5
	>=40% but <45%	1.25
0% to 39.9% = F	>=30% but <40%	1
	>=20% but <30%	0.75
	>=10% but <20%	0.5
	0% but <10%	0

## Component Grade Scale

Prepared for Success Component Grade Assignment	
Points	Letter Grade
4.125 – 5.000	A
3.125 – 4.124	B
2.125 – 3.124	C
1.125 – 2.124	D
0 – 1.124	F

## Examples of Calculation

This calculation is very different from the others because the measures are ungraded. The denominator of the calculation is the number of students in the school's or district's 4-year and 5-year graduation rates, regardless of whether the student graduated. A student has multiple ways to be counted in the numerator and to earn a bonus weight for the numerator. The grade is awarded based on the percentage of students that have demonstrated they are prepared for success after high school. In the example below, there are 10 students that make up the denominator of the calculation.

Student	Students Count 1.0 in PFS Numerator with One of More of These*			Students in Numerator Earn 0.3 Bonus Weight with One of More of These**			Total Points for Student
	ACT/SAT Remediation Free	Honors Diploma	Industry-Recognized Credential	AP Test 3 or Higher	IB test 4 or Higher	Three or More College Credits	
Student 1	YES	YES	No	YES	No	YES	1.3
Student 2	No	No	YES	No	No	No	1
Student 3	No	No	No	No	No	No	0
Student 4	No	No	YES	YES	No	No	1.3
Student 5	No	No	No	YES***	No	No	0
Student 6	No	No	No	No	No	No	0
Student 7	No	YES	No	No	No	No	1
Student 8	No	No	No	No	No	No	0
Student 9	No	YES	No	No	YES	No	1.3
Student 10	YES	No	No	No	No	YES	1.3
<b>TOTAL POINTS EARNED</b>							<b>7.2</b>

\*A student counts 1.0 in the numerator regardless of how many elements are earned from the left side of the table (yellow shading).

\*\*A maximum bonus of 0.3 earned for having one or more elements from the right side of the table (green shading).

\*\*\*Note that Student 5 does not contribute points to the numerator as nothing is earned from the left side of the table (yellow shading).

2017 Component*	Weighted Points	Component Points
PFS Component	72% (7.2 of 10) = 3 points x 1.0 weight	3 points
<b>Total</b>		<b>3 points = "C" Component grade</b>

\*Note this grade and points earned are calculated using the 2018 table. The points for each grade range were different in prior years.