

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. Improving At-Risk K-3 Readers
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 Improving At-Risk K-3 Readers), their measures (AMO and Improving At-Risk K-3 Readers, 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 their 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 contribute in the same proportion to the component grade. If the school or district has no value-added grades, then the Progress component 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. The components eventually are 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.

Indicators		
Percent to Points Conversion		
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

PI Score		
Percent to Points Conversion		
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
	>=87.5% but <90%	4
80%-89.9% – B	>=85 but <87.5%	3.75
	>=82.5% but <85%	3.5
	>=80% but <82.5%	3.25
	>=77.5% but <80%	3
70%-79.9% – C	>=75% but <77.5%	2.75
	>=72.5% but <75%	2.5
	>=70% but <72.5%	2.25
	>=65% but <70%	2
50%-69.9% – D	>=60% but <65%	1.75
	>=55% but <60%	1.5
	>=50% but <55%	1.25
	>=40% but <50%	1
<50% – F	>=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
Total		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
Total		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
Total		4.10 points = "B" Component grade

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
Total		2.25 points = "C" Component grade

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
Total		0.75 points = "F" Component grade

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

Progress Component

Measures Included

1. Overall Value-Added (historically referred to as “All Students” measure)
2. Gifted Value-Added
3. Students with Disabilities Value-Added
4. Lowest 20% Value-Added

Weights*

State law refers to the first measure as the “Overall Value-Added” calculation, which sometimes confuses stakeholders. The “Overall” measure is different from the “overall component grade” which combines all four measures into one final grade. The Overall measure calculation uses all students who take applicable tests versus using a subgroup of students. Historically, stakeholders and ODE referred to this calculation as the “All Students” measure grade.

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 measure grade will be the component grade. If a school or district has no measures with grades, then the Progress Component also is not graded.

Growth Index to Points Scale

In the fall of 2019, the legislature amended the law to change the scale used to assign the value-added measure grades. Through the 2018-19 report cards, the grades were assigned using this scale below.

Growth Index to Points – through 2018-19	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

In 2019-20 and beyond, this scale will be used to assign the measure grades.

Growth Index to Points – through 2018-19	Letter Grade	Points
+1 or greater	A	5
Greater than -1 but less than +1	B	4
Greater than -2 but less than or equal to -1	C	3
Greater than -3 but less than or equal to -2	D	2
Less than or equal to -3	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	+0.72 Gain Index = 4 Points x .15 weight	0.6 Points
Low 20%	-1.89 Gain index = 3 points x .15 weight	0.45 Points
Gifted	-4.24 = 1 points x .15 weight	0.15 Points
Total		3.95 Points = B Grade

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	+0.72 Gain Index = 4 Points x .18375 weight	0.735 Points
Second Subgroup	-1.89 Gain index = 3 points x .18375 weight	0.55125 Points
Total		4.44875 Points = A Grade

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	+0.72 Gain Index = 4 Points x .285 weight	1.14 Points
Total		4.715 Points = A Grade

Improving At-Risk K-3 Readers Component

Measure Included

1. Improving At-Risk K-3 Readers Measure

Weights*

1. The Improving At-Risk K-3 Readers Measure contributes 100% to the Improving At-Risk K-3 Readers Component Grade

*If a school/district has no Improving At-Risk K-3 Readers grade, then there is no Improving At-Risk K-3 Readers component grade.

Percentage to Points Scale

The grade scale for the Improving At-Risk K-3 Readers 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 2020 report card. The statewide average improvement was 35.6% in 2019.

2020 K-3 Percentage to Points (using 2019 Average)		
Measure Grade Scale	Percentage	Points
78.6% to 100% = A	>=94.6% to 100%	5
	>=89.2% but <94.6%	4.75
	>=83.9% but <89.2%	4.5
	>=78.6% but <83.9%	4.25
57.1% to 78.5% = B	>=73.2% but <78.6%	4
	>=67.8% but <73.2%	3.75
	>=62.4% but <67.8%	3.5
	>=57.1% but <62.4%	3.25
35.6% to 57% = C	>=51.7% but <57.1%	3
	>=46.3% but <51.7%	2.75
	>=40.9% but <46.3%	2.5
	>=35.6% but <40.9%	2.25
14.1% to 35.5% = D	>30.2% but <35.6%	2
	>=24.8% but <30.2%	1.75
	>=19.4% but <24.8%	1.5
	>=14.1% but <19.4%	1.25
0% to 14% = F	>=10.5% but <14.1%	1
	>=7 but <10.5%	0.75
	>=3.5% but <7%	0.5
	<3.5%	0

Component Grade Scale

Improving At-Risk K-3 Readers 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
Total		2.5 points = "C" Component grade

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

Prepared for Success Component

Measures Included

The Prepared for Success Component is calculated using a series of ungraded measures. State law says the denominator of the calculation is 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 a 12-point industry-recognized credential or earn 12 points with multiple credentials in a single career path

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 transcribed 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 was phased in across three years from 2016 to 2018 and the “percentage to points” conversion table also changed. Shown below is the table that is used in 2018 and later for this component. Note that this table shows the COMPONENT grade scale – not the measure grade scale.

Prepared for Success Percentage to Points – 2020		
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
TOTAL POINTS EARNED							7.2

*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).

2020 Component*	Weighted Points	Component Points
PFS Component	72% (7.2 of 10) = 3 points x 1.0 weight	3 points
Total		3 points = "C" Component grade

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