



**Department of
Education &
Workforce**



DEEP DIVE INTO OHIO'S SCHOOL REPORT CARDS

Progress Component

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Ohio Department of Education & Workforce

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AGENDA

- Overall Value-added Progress Measure
 - SAS Models



Traditional School and District Report Cards

Districts and schools report information for the Ohio School Report Cards on specific measures within six broader components. The components are Achievement, Progress, Gap Closing, Early Literacy, Graduation, and College, Career, Workforce and Military Readiness (CCWMR). Districts and schools earn a star rating on the components and an overall star rating. This helps give Ohio parents and schools a snapshot of the quality of education they are providing to students. The [complete technical document for the Traditional School Report Card](#) walks through each component and calculation. For more information, [view the new and detailed documents](#) available at the links below.

1. **[Achievement Component](#)**
2. **[Progress Component](#)**
3. **[Gap Closing Component](#)**
 - » [Chronic Absenteeism Improvement Indicator](#)
 - » [English Language Proficiency Improvement Indicator](#)
 - » [Gifted Performance Indicator](#)
4. **[Early Literacy Component](#)**
5. **[Graduation Component](#)**
6. **[College, Career, Workforce and Military Readiness Component](#)**
7. **[Overall and Component Ratings](#)**
8. **[Additional Data and Information](#)**
 - » [Attendance Rate](#)
 - » [Education Management Information System \(EMIS\)](#)
 - » [Financial Data](#)
 - » [Positive Behavioral Interventions and Supports \(PBIS\)](#)
 - » [School Choice Options](#)
 - » [Similar District Methodology](#)
 - » [Student Opportunity Profiles](#)
 - » [Wellness and Physical Education](#)



 Find Your Report Card	 Download Report Card Data
 Resources and Technical Documents	 Annual Reports and Information
 Rewards and Recognition	 Federal School Improvement Identification



Progress Component

Overview

[Print Component Information](#)

Progress looks closely at the growth all students are making based on their past state test performances. The Progress Component measures the academic performance of students compared to expected growth on Ohio's State Tests. This calculation uses a "value-added" model of measuring academic growth that compares the change in achievement of a group of students to an expected amount of change in achievement that is based on the students' prior achievement history.

The Progress Component has one measure, the overall value-added progress measure, that contributes fully to the star rating. Students' state tests results are examined through a series of calculations by the department's vendor, SAS, to produce an overall value-added score. The overall value-added score is used to assign a star rating to schools and districts. There are additional data reported with the Progress Component which do not factor into the star rating and are noted below.

Previous component ratings were assigned based solely on a "growth index." The growth index provides a level of evidence that the growth observed is statistically different than the growth expected. Another way to interpret this is that the growth index tells us how sure we are that the growth happened in comparison to what we expected.

As set forth in legislation, and through consultation with stakeholders, the updated Progress Component includes a second step to assign ratings. The second step uses an "effect size" to measure the magnitude and it helps standardize and interpret the value-added growth measurement. Another way to say this is that the effect size helps measure the amount of the growth that took place between the two years' tests.

Technical Documentation and Resources

- » [2022-2023 Progress Component Technical Documentation](#)
- » [SAS EVAAS Analysis Technical Documentation](#) - New (10/3/23)



2022-2023 SCHOOL YEAR Progress Component Technical Documentation TRADITIONAL DISTRICT AND SCHOOL REPORT CARDS

Introduction

Progress looks closely at the growth all students are making based on their past state test performances. The Progress Component measures the academic performance of students compared to expected growth on Ohio's State Tests. This calculation uses a "value-added" model of measuring academic growth that compares the change in achievement of a group of students to an expected amount of change in achievement that is based on the students' prior achievement history.

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PROGRESS COMPONENT

Here's What.

Here's the data.

So What?

So, what does
the data tell
us?

Now What?

Now what do
we do?



TEST YOUR KNOWLEDGE: PROGRESS COMPONENT

True or **False**

Retakes for end-of-course exams are included in the calculations for the progress component.

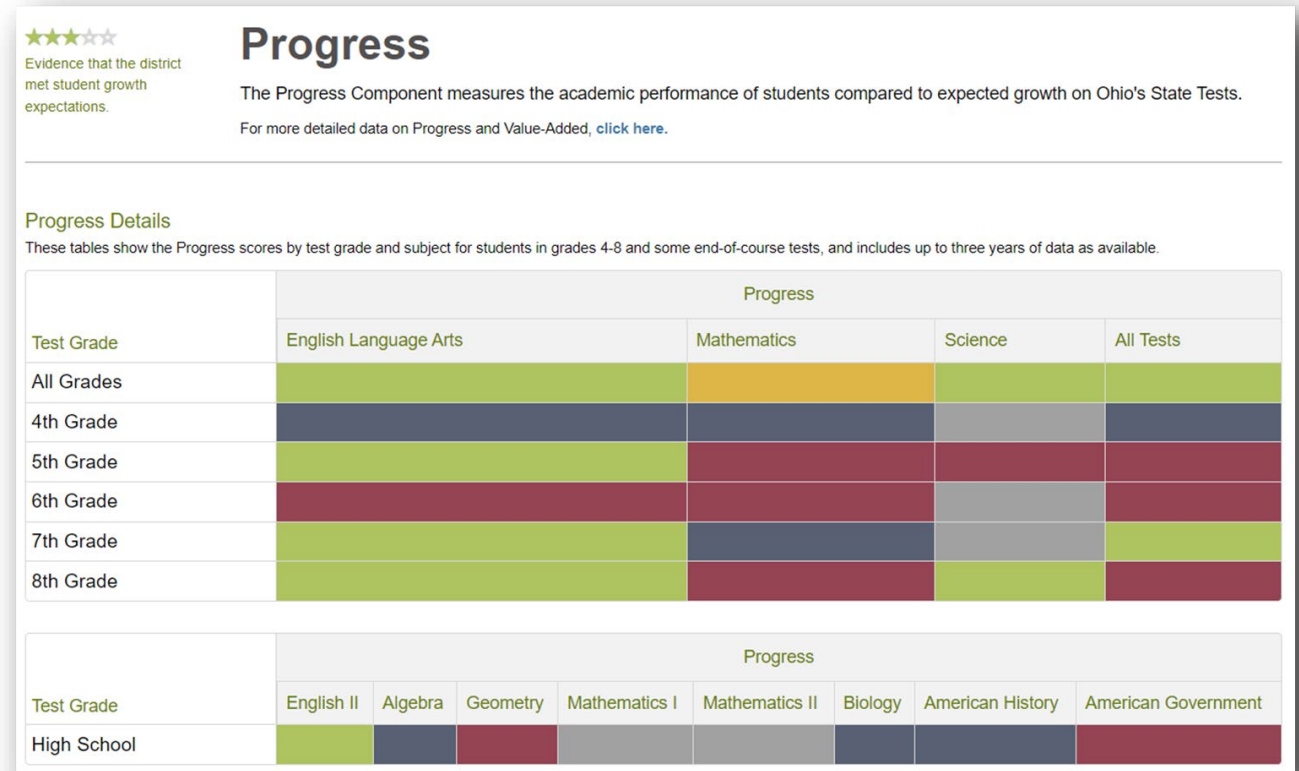


OVERALL VALUE-ADDED PROGRESS MEASURE



HERE'S WHAT

- The Progress Component measures how groups of students made progress as compared to the statewide expectation of growth.
- The expectation of growth is based on how students in the group performed, on average, compared to other students like them across the state.



- Significant evidence that the district exceeded student growth expectations by a larger magnitude.
- Significant evidence that the district exceeded student growth expectations.
- Evidence that the district met student growth expectations.
- Significant evidence that the district fell short of student growth expectations.
- Significant evidence that the district fell short of student growth expectations by a larger magnitude.
- Value Added data is not available.



SAS MODELS



GAIN BASED MODEL

ELA AND MATH TESTS IN GRADES 4-8

- Measures growth between two points in time for a group of students.
- To estimate the average achievement of a group of students, EVAAS uses all end-of-grade scores across years, grades, and subjects.
- The growth expectation is met when a cohort of students from grade to grade maintains the same relative position with respect to statewide student achievement in that year for a specific subject and grade.



PREDICTIVE MODEL

5TH GRADE SCIENCE AND EOC

- Measures the difference between students' expected scores for a particular subject/year with their actual scores
- Calculates an expected score for each student based on their individual testing history.
- Growth expectation is met when students made the same amount of progress as students in the average district/school/teacher within the state for that same year/subject/grade.
- A student must have at least three prior assessment scores for an expected score to be generated.
- The model includes the scores of all students in the state or reference group along with their testing histories across years, grades, and subjects.



Background

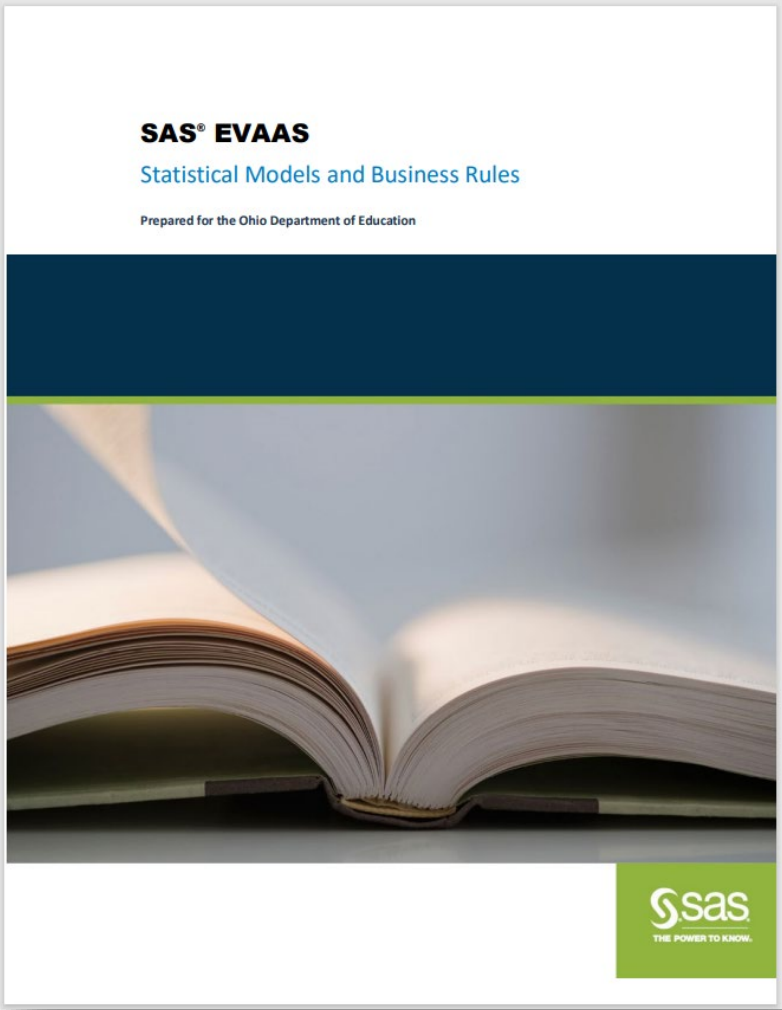
Two Approaches to Measuring Growth

- Gain Model (a.k.a. MRM)
 - Measures the change in relative achievement from one grade to the next.
 - Traditionally has been used for assessments given in consecutive grades, such as OST English Language Arts and Math assessments in grades 4-8.
- Predictive Model (a.k.a. URM)
 - Measures the difference between students' actual and expected scores, where the expected score is based on students' prior test scores and assumes the average experience (based on average teacher, school, or district results as applicable, with the average district only including traditional districts)
 - Traditionally has been used for assessments given in non-consecutive grades, such as OST Science and OST EOCs.



As these are two different methods of measuring growth, they do not produce identical results.

So, what? What students count in the Measure?



What tests count in the Measure?

Ohio State Assessments

- Grades 4-8 English Language Arts
- Grades 4-8 Mathematics
- Grades 5 & 8 Science

End of Course Assessments

- English Language Arts II
- Algebra I
- Geometry
- Biology
- American/United States Government
- American/United States History



HOW MANY STUDENTS MUST WE HAVE?

GAIN MODEL EXAMPLE

- Must have at least 6 accountable students in the subject, grade and year
- For example, to report an estimated NCE gain for a school OST Math grade 5 for this year, there must be the following requirements:
 - There must be at least six fifth-grade students with an OST Math grade 5 score at school A for this year.
 - Of the fifth-grade students at school A this year in all subjects, not just Math, there must be at least six students with an OST Math grade 4 score from last year.
 - At least one of the fifth-grade students at school A this year must have an OST Math grade 5 score from this year and an OST Math grade 4 score from last year.

PREDICTIVE MODEL EXAMPLE

- Must have at least 10 students in a specific subject, grade, and year.
- Students must have three prior test scores to receive an expected score in that subject, grade, and year.



TWO STEPS TO ASSIGN COMPONENT RATING

- Step 1

- Use the **growth index value to determine if there is statistical evidence** that the observed growth was indeed above or below the growth expectation
- Every measure starts at 3 stars, and then either stays at 3, or moves to 2 or 4 at this step.

- Step 2

- Use the **effect size to determine if the magnitude of growth** was large enough for...
 - Schools and districts showing above expected growth to be considered 5 stars.
 - Schools and districts showing below expected growth to be considered 1 star.



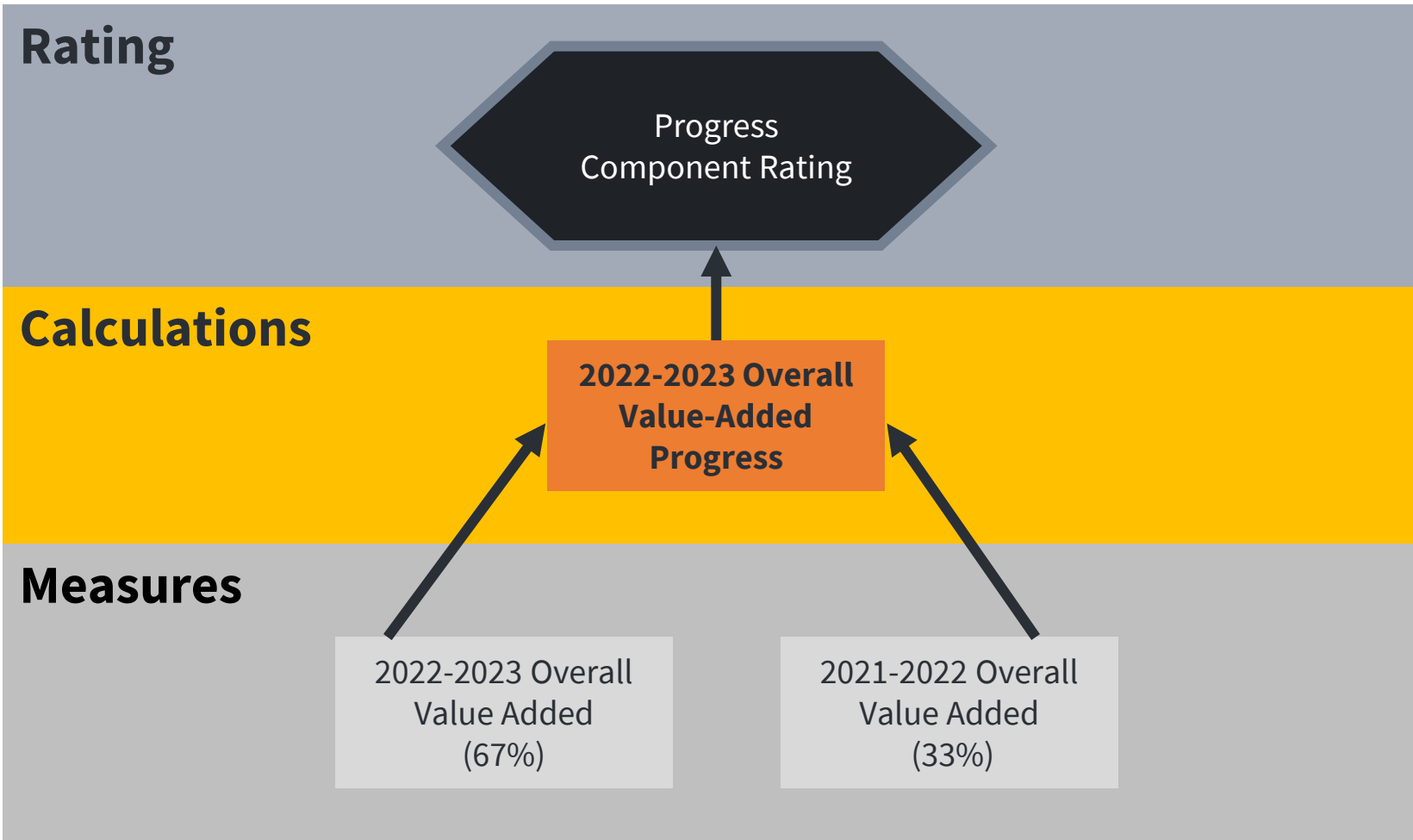
RATING DIFFERENCES FOR DISTRICTS AND SCHOOLS

DISTRICT RANGE
Growth index of at least +2 and effect size of at least +0.1
Growth index of at least +2 and effect size of less than +0.1
Greater than or equal to -2 but less than +2
Less than -2 and effect size of at least -0.1
Less than -2 and effect size of less than -0.1

SCHOOL RANGE
Growth index of at least +2 and effect size of at least +0.2
Growth index of at least +2 and effect size of less than +0.2
Greater than or equal to -2 but less than +2
Less than -2 and effect size of at least -0.2
Less than -2 and effect size of less than -0.2

[2022-2023 Progress Component Technical Documentation](#)





NOW WHAT?

- Do we notice any trends?
- Are there any grade levels that are doing very well? Any grade levels that are struggling?
- How does this match up with our achievement data?
- What are the year over year trends with progress?





SECURE DATA CENTER

The screenshot shows the navigation menu of the Ohio Department of Education Report Portal. The 'Public Data' menu item is highlighted with a red box. The 'Value Added' sub-menu item is also highlighted with a red box, and its dropdown list is visible, with 'District Value Added – Overall and Subject Composites' highlighted by a red box.

- Home ▾
- Public Data** ▸
- Finance ▸
- Teacher Reports
- Secure Data Center ▸
- Nonpublic Data ▸

Department of Education Report Portal

Ohio Department of Education Report Portal! ODE produces many reports providing information on a variety of reporting platform, and the Reports Portal currently contains reports for the following topics:

- Career and Technical Education ▸
- Discipline ▸
- Enrollment ▸
- Financial ▸
- Graduation ▸
- Improving At-Risk K-3 Readers ▸
- Student Attendance ▸
- Teacher and Staff ▸
- Test Results ▸
- Value Added** ▸
 - District Value Added – 4th – 8th Grade Subject Tests
 - School Value Added – 4th – 8th Grade Subject Tests
 - District Value Added – End of Course Exams
 - School Value Added – End of Course Exams
 - District Value Added – Overall and Subject Composites**
 - School Value Added – Overall and Subject Composites
- Local Report Card ▸

Public Data Reports available to the public on academic, attendance, enrollment and graduation measures.

Secure Data Center Reports available to Districts on academic, attendance, enrollment and graduation measures.

Nonpublic Data Reports for nonpublic schools on academic, enrollment and graduation measures.





Value Added District - Overall and Subject Composites

Choose a School Year

2022-2023 School Year

Choose a District

District Name

Choose a Subgroup

All

Subject	Composite Year School Year Subgroup	Two most recent years of gains combined			Current year gains only		
		2022-2023 School Year			2022-2023 School Year		
		Gain Index	Grade	Effect Size	Gain Index	Grade	Effect Size
Overall Composite	Overall	7.90	5 Stars	0.13	4.11	4 Stars	0.09
	Gifted Students	5.47	5 Stars	0.29	4.01	5 Stars	0.29
	Students with Disabilities	1.50	3 Stars	0.05	0.63	3 Stars	0.03
English Language Arts	Overall	0.88	3 Stars	0.03	-1.41	3 Stars	-0.05
	Gifted Students	1.17	3 Stars	0.10	0.94	3 Stars	0.11
	Students with Disabilities	-1.85	3 Stars	-0.11	-2.66	1 Star	-0.23
Mathematics	Overall	5.58	5 Stars	0.14	1.44	3 Stars	0.05
	Gifted Students	3.85	5 Stars	0.31	2.04	5 Stars	0.23
	Students with Disabilities	2.53	5 Stars	0.14	2.07	5 Stars	0.16
Science	Overall	13.78	5 Stars	0.52	11.70	5 Stars	0.60
	Gifted Students	6.46	5 Stars	0.65	6.01	5 Stars	0.70
	Students with Disabilities	4.73	5 Stars	0.36	3.94	5 Stars	0.41
Social Studies	Overall	-3.36	1 Star	-0.15	-1.36	3 Stars	-0.08
	Students with Disabilities	-2.17	1 Star	-0.20	-1.71	3 Stars	-0.22



COMPONENT CALCULATOR

Value-Added Inputs

Select Value-Added Type

District

Input Value-Added Growth Index and Effect Size

Growth Index

←

Effect Size

←

Component Rating

Choose a School Year

2022-2023 School Year

Choose a District

District Name

Subject	Composite Year	School Year Subgroup	Two most recent years of gains combined		
			2022-2023 School Year Gain Index	Grade	Effect Size
Overall Composite	Overall		7.90	5 Stars	0.13
	Gifted Students		5.47	5 Stars	0.29
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	Gifted Students		6.46	5 Stars	0.65
	Students with Disabilities		4.73	5 Stars	0.36
Social Studies	Overall		-3.36	1 Star	-0.15
	Gifted Students		-2.17	1 Star	-0.20
	Students with Disabilities				

Report Card Component Calculator

- Progress Tab



SAS REPORTS

For more detailed data on Progress and Value-Added, [click here.](#)

KEY FEATURES

What are some helpful options in the reports?

Districts and Schools

Cardinal Middle School

+ Add a Comparison

Value-Added

Diagnostics

Accountability Value-Added

Data to Display

Effectiveness Level

Growth

Achievement

Tests and Subjects

Ohio's State Tests (4-8) (OST)

Ohio's State Tests End of Course (OST EOC)

Year

Years Cohorts

2110

2111

2112

Effectiveness Levels

Light Blue

Green

Yellow

DISTRICT AND SCHOOLS SELECTION
Use the drop-down menu to view a different district or school. Start typing a district or school name in the box to narrow your search.

ADD A COMPARISON FEATURE
Click Add a Comparison to view up to 10 districts or schools, depending upon your access.

REFRESH BUTTON
Return to the default view of the report at any time by clicking this button.

DATA TO DISPLAY
Select Growth or Achievement to display additional columns of information.

TESTS AND SUBJECTS
Use these drop-down menus to select and deselect tests and subjects to customize your data views.

YEARS
Select additional years to view growth results across time. In the report display, click on the column headers to sort the data and find the best view.

COHORTS
If available, click on this tab to choose from different grade levels of students with cohort data. This option enables you to view the cohort's growth journey over time for different tests and subjects.

EFFECTIVENESS LEVELS
Turn different effectiveness levels on and off to view specific results

SAS® EVAAS

Desk Reference

Features of the District & School Value-Added Reports

EASY-TO-READ DISPLAY
Graphics, colors, and symbols make understanding and comparing growth results easy and intuitive.

MORE COMPARISON OPTIONS
Now you can easily compare up to 10 districts and schools using the Add a Comparison feature.

DOWNLOAD THE DATA
Use the new Download Report button to save your own spreadsheet of the data.

[Download Report](#)

Subject	Year	Grade	Growth Index	Growth Measure	Standard Error
Math	2018	4	7.22	0.9	0.1
Math	2018	5	16.11	1.8	0.1
Math	2018	6	20.56	2.5	0.1
Math	2018	7	19.42	2.4	0.1
Math	2018	8	12.38	4.3	0.1
Math	2018	Across Grades	16.85	1.5	0.1
Math	2019	4	1.09	0.2	0.1
Math	2019	5	18.95	2.2	0.1
Math	2019	6	15.51	1.8	0.1
Math	2019	7	18.24	2.3	0.1
Math	2019	8	4.81	0.6	0.1



CLICK PATHS

CLICK PATHS

What are some useful views in the report?

I want to know...

Our school's student growth for the most recent reporting year

How our most recent year compares to previous years' data

How to see one grade or subject at a time

How to examine all of the grades and subjects with a particular effectiveness level

How to compare our school's student growth to that of the district or another school

What do I click?

- ⇒ Log in to EVAAS
- ⇒ Go to the Reports menu
- ⇒ Select the School Value-Added report

- ⇒ In the filter panel, scroll down to Years
- ⇒ Select the desired years
- ⇒ Click the Grade column to shift it left

- ⇒ Click on triangles to expand the menus
- ⇒ Deselect items you do not want to see

- ⇒ Click refresh
- ⇒ In the filter panel, scroll down to Effectiveness Level
- ⇒ Deselect all desired levels

- ⇒ In the filter panel, scroll up to Districts & Schools
- ⇒ Click on Add a Comparison
- ⇒ Choose up to 10 options

What will I see?

The recent year of data for all available assessments

Subject	Year	Grade	Effectiveness Level
OST Mathematics - Accountable	2112	6	Yellow
		7	Light Blue
		8	Green

Tip: Click refresh to return to this view anytime!

Years of data stacked in ascending order

Subject	Grade	Year	Effectiveness Level
OST English Language Arts - Accountable	6	2110	Green
		2111	Green

What do the data columns tell me?

Glossary

Effectiveness Level
A category that describes the certainty that a group of students met, exceeded, or fell short of expected growth.

Growth Index
An indicator of the certainty that the group of students met, exceeded, or fell short of expected growth.

Effect Size
An indicator of magnitude and practical significance that the group of students met, exceeded, or fell short of expected growth.

Growth Measure
A representative estimate of the growth that students...

How to see one grade or subject at a time

- ⇒ Click on triangles to expand the menus
- ⇒ Deselect items you do not want to see

Only the data for the grades or subjects you selected

Subject	Grade	Year	Effectiveness Level
OST Mathematics - Accountable	5	2110	Green
	6	2111	Yellow
	7	2112	Light Blue
	8	2113	Green
OST EOC Algebra I - Accountable	N/A	2113	Light Blue

How to see one grade or subject at a time

- ⇒ In the filter panel, scroll down to Tests & Subjects
- ⇒ Click on triangles to expand the menus
- ⇒ Deselect items you do not want to see

students' actual scale scores.

Entering Achievement Percentile
The entering achievement for the group of students relative to the overall distribution for this assessment.

Student Count
The number of students included in the analysis.

Data for each district or school you selected

Subject	Year	Grade	District Group	Effectiveness Level
OST English Language Arts - Accountable	2113	7	Edgewood Middle School High school	Light Blue
			Cardinal Middle School Grand Tower	Green
			Harriet Middle School High school	Green



I want to know...




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What will I see?

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OST Mathematics - Accountable	2112	6	 Yellow
		7	 Light Blue
		8	 Green

Tip: Click refresh  to return to this view anytime!

EVAAS

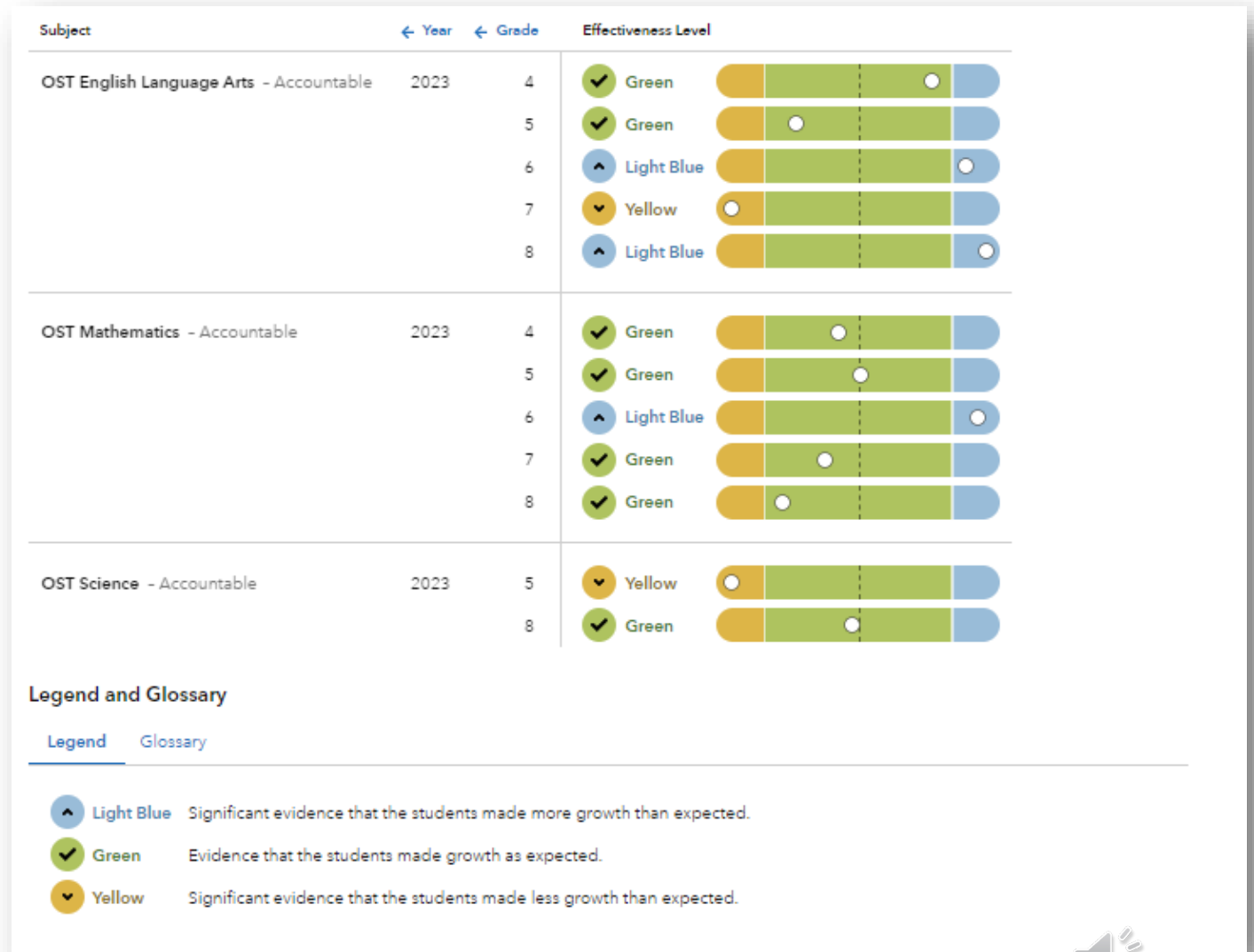
OHIO

Log In

Public Access

STUDENT GROWTH FOR MOST RECENT REPORTING YEAR

- This is the recent year of data for all assessments for one school
- For ELA, there is evidence that the students made expected growth in grades 4 and 5
- ELA grades 6 and 8 made more growth than expected



How our most recent year compares to previous years' data

- ⇒ In the filter panel, scroll down to Years
- ⇒ Select the desired years
- ⇒ Click the Grade column to shift it left

Years of data stacked in ascending order

Subject	← Grade	← Year	Effectiveness Level
OST English Language Arts - Accountable	4	2110	✓ Green
		2111	✓ Green

Only the data for the grades or subjects you selected

+ Add a Comparison

Value-Added

Accountability Value-Added

Data to Display

- Effectiveness Level
- Growth
- Achievement

Legend and Glossary

what are the trends in growth and achievement?

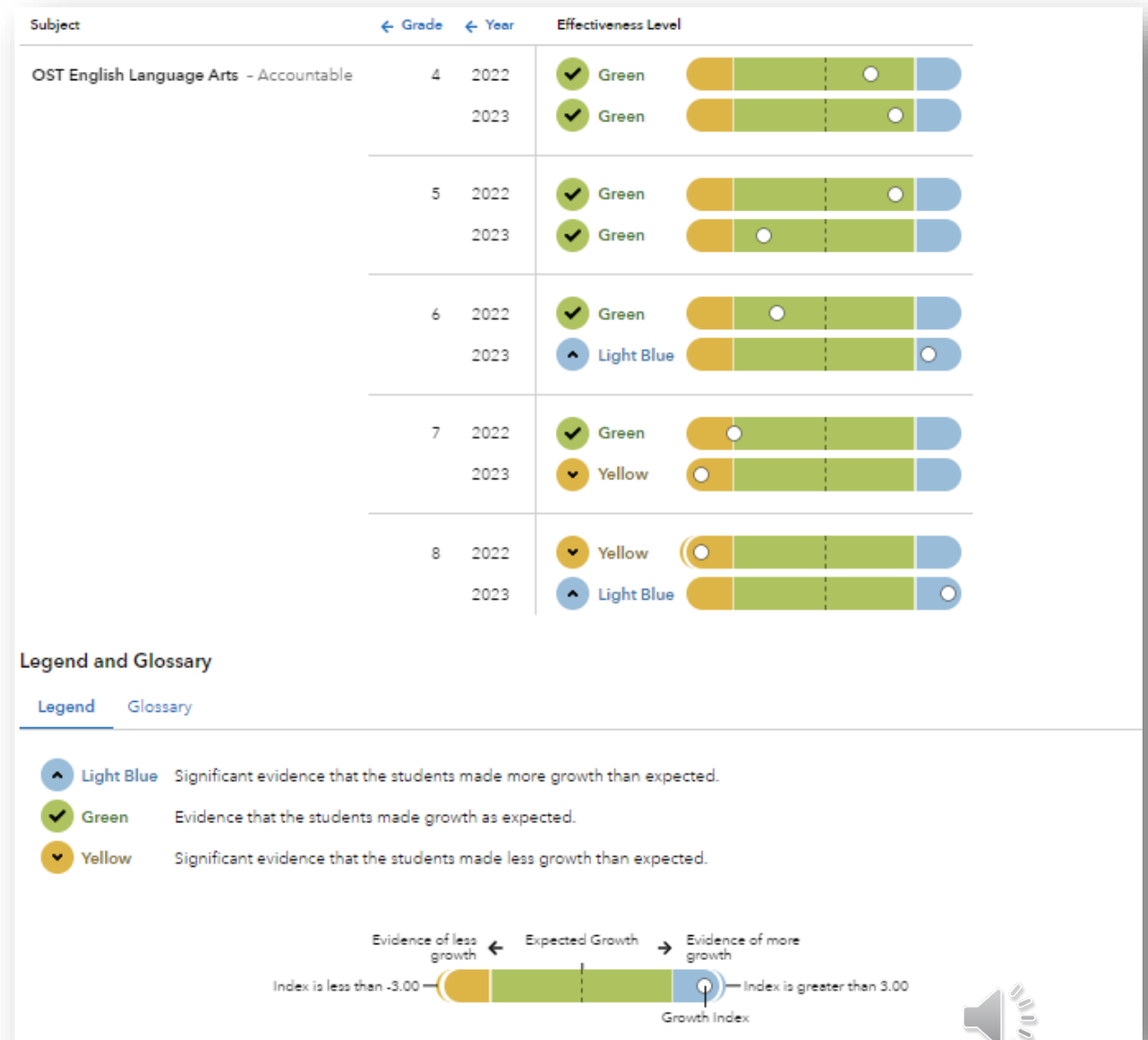
This report enables you to select data of interest, assess trends over time, and compare results. Use the filters on the left to explore growth and achievement data. Depending on the assessment, achievement is reported in Normal Curve Equivalents (NCEs) or scale scores and does not reflect proficiency level.

OST Accountable reports include only those students accountable to that district.

Subject	← Year	← Grade	Effectiveness Level
OST English Language Arts - Accountable	2023	4	✓ Green
		5	✓ Green
		6	⬆ Light Blue

HOW DOES THE MOST RECENT YEAR COMPARE TO THE PREVIOUS YEAR?

- 4th grade ELA maintained expected growth from 2022 to 2023
- 5th grade ELA increased their index score in the positive while maintaining growth from 2022 to 2023
- 6th grade and 8th grade ELA showed significant growth from one year to the next
 - What factors contributed to this growth?
 - Was it a change in curriculum or teaching methods?
 - What interventions were put in place that could be replicated?



How to compare our school's student growth to that of the district or another school

- ⇒ In the filter panel, scroll up to **Districts & Schools**
- ⇒ Click on **Add a Comparison**
- ⇒ Choose up to 10 options

Data for each district or school you selected

Subject	← Year	← Grade	← Data Group	Effectiveness Level
OST English Language Arts - Accountable	2113	7	Edgewood Middle School High Low	Light Blue
			Cardinal Middle School Grand Tower	Green
			Harriet Middle School High Low	Green

+ Add a Comparison

Value-Added

Accountability Value-Added

Data to Display

- Effectiveness Level
- Growth
- Achievement

▲ Legend and Glossary

What are the trends in growth and achievement?

This report enables you to select data of interest, assess trends over time, and compare results. Use the filters on the left to explore growth and achievement data. Depending on the assessment, achievement is reported in Normal Curve Equivalents (NCEs) or scale scores and does not reflect proficiency level.

OST Accountable reports include only those students accountable to that school.

Subject	← Year	← Grade	Effectiveness Level
OST English Language Arts - Accountable	2023	4	Green
		5	Light Blue

HOW DOES OUR SCHOOL'S STUDENT GROWTH COMPARE TO THAT OF THE DISTRICT?

- This view is comparing years and Pfeiffer elementary to the district
- From 2022 to 2023 in 4th grade math, Pfeiffer elementary had more growth than that of the district
 - Pfeiffer elementary maintained their growth from one year to the next, while the district improved their growth index
- For 5th grade math, Pfeiffer saw a downward trend in growth; there is significant evidence that students made less growth than expected while the district maintained their growth

Subject	Grade	Year	Data Group	Effectiveness Level
OST Mathematics - Accountable	4	2022	Pfeiffer Elementary School (029801) Akron City (043489)	Light Blue
		2023	Pfeiffer Elementary School (029801) Akron City (043489)	Green
	5	2022	Pfeiffer Elementary School (029801) Akron City (043489)	Green
		2023	Pfeiffer Elementary School (029801) Akron City (043489)	Yellow
6	2022	Akron City (043489)	Yellow	
	2023	Akron City (043489)	Yellow	
7	2022	Akron City (043489)	Green	
	2023	Akron City (043489)	Green	
8	2022	Akron City (043489)	Green	
	2023	Akron City (043489)	Yellow	



NOW WHAT?

Follow the research and evidence!

Explore the same main areas that you would explore for achievement:

- How strong is the core curriculum?
- When/where/how are students receiving interventions?
- Is it a curriculum/instruction issue, a chronic absenteeism issue, or both?
- What trends do you notice across grade levels?



CONTACT

Please contact the Office of Accountability with additional questions: accountability@education.ohio.gov





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OF IT ALL™**

Ohio.org



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