

HCPS Academic Performance 2022-2023

Board of Education Presentation September 11, 2023



Maryland Comprehensive Assessment Program (MCAP) 2023-2024 Assessments

MCAP English/Language Arts (ELA)*	• Given to all students in grades 3 through 8 in addition to grade 1	0
MCAP Math*	 Given to all students in grades 3 through 8 as well as students enrolled in Algebra I, Geometry, and Algebra II 	
Maryland Integrated Science Assessment (MISA)	 Given to students in grades 5 and 8 	
Life Science MISA*	• Given to high school students enrolled in Biology (grade 9)	*Note
Social Studies Grade 8	• Operational test for the first time in 2022-23; results not yet available	High school students taking MCAP assessments in 2022-
HS Government*	 Given to high school students enrolled in Government (grade 9) 	23 only needed to take the assessment. Passing the test is not
		a graduation



requirement.

Local and State Assessments: Considerations

- Measure student achievement and growth to drive instruction for individual students
- Measure the mastery of the content standards in each grade level and course
- Data is immediately available to educators
- Results can be very specific to students' strengths and weaknesses
- Can be individualized for students' needs (i.e., students receiving special education services)
- Examples: DIBELS, Reading/Math Inventory

Local Assessments

- Measure of accountability across schools and districts
- Randomly selects some of the content standards at each grade level and course
- Results are not immediate; students receive scores the following school year
- Results are more global; students receive scores and sub-scores defined by domains
- Cannot be individualized; all students are required to assess on grade level
- Examples: MCAP, MISA

State Assessments





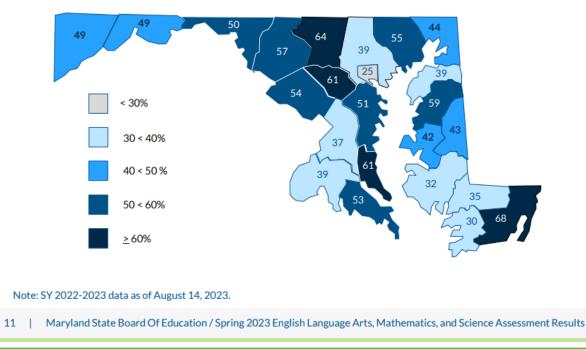
MCAP Celebrations: 🥟 2022-2023

English Language Arts Results

EDUCATION

English Language Arts Grade 3-8 Assessments by LEA, SY 2022-2023

Statewide, 47% of students are proficient in ELA grade 3-8 tests. LEAs vary from a low of 25% to a high of 68% in the student proficiency rate. Twentythree of 24 LEAs improved from SY 2021-2022 to SY 2022-2023.



		(
Baltimore City	25%	
Somerset	30%	
Dorchester	32%	
Wicomico	35%	
Prince George's	37%	
Charles	39%	
Kent	39%	
Baltimore County	39%	
Talbot	42%	
Caroline	43%	
Cecil	44%	
Garrett	49%	
Allegany	49%	
Washington	50%	
Anne Arundel	51%	
Saint Mary's	53%	
Montgomery	54%	
Harford	55%	
Frederick	57%	
Queen Anne's	59%	
Howard	61%	
Calvert	61%	
Carroll	64%	6
Worcester	6	
		070
	08.22.202	23

HCPS ranked **7**th out of 24 counties for ELA Grades 3-8.

Celebrate



MCAP Celebrations:

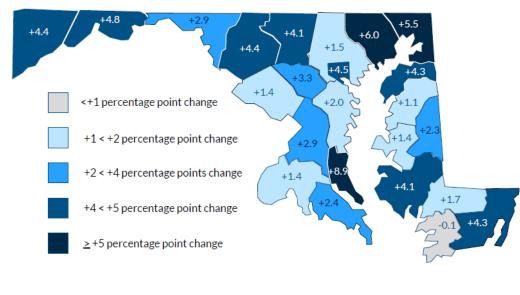
English Language Arts Results

MARYLAND STATE DEPARTMENT OF EDUCATION

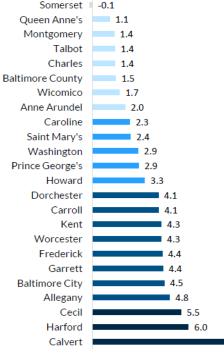
D

English Language Arts Grade 3-8 Assessments by LEA, SY 2022-2023 Compared to SY 2021-2022

Statewide, the percentage of students scoring proficient in ELA grade 3-8 tests increased by 2.9 percentage points. Twenty-three of 24 LEAs improved from SY 2021-2022 to SY 2022-SY2023.



Note: SY 2022-2023 data as of August 14, 2023.



HCPS showed the 2nd highest ELA growth in the state for Grades 3-8.

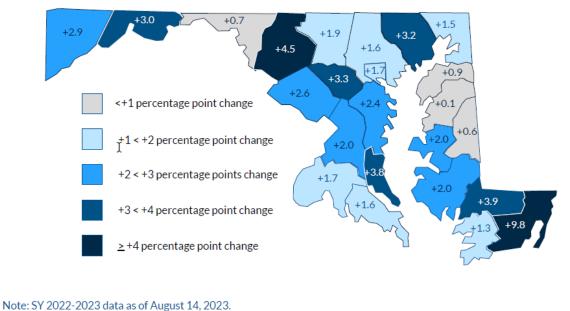
Celebrate

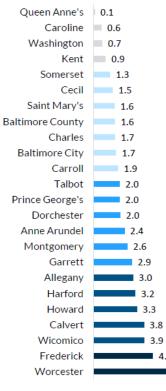
HARFORD COUNTY

MCAP Celebrations:

Mathematics Grade 3-8 Assessments by LEA, SY 2022-2023 Compared to SY 2021-2022

Statewide, the percentage of students scoring proficient in mathematics grade 3-8 tests increased by 2.5 percentage points. Every LEA improved from SY 2021-2022 to SY 2022-SY2023.





HCPS ranked 6th in the state for growth on math 3-8 compared to 2021-2022.

Celebrate

9.8

HARFORD COUNTY PUBLIC SCHOOLS

MCAP Rankings: HCPS 2021-22 & 2022-23

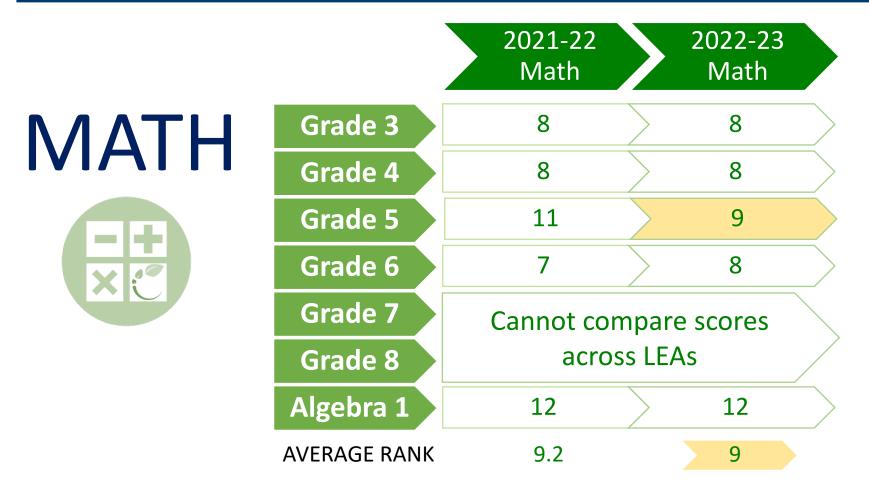


Note

Highlighted cell indicates HCPS improved in the state rankings.



MCAP Rankings: HCPS 2021-22 & 2022-23

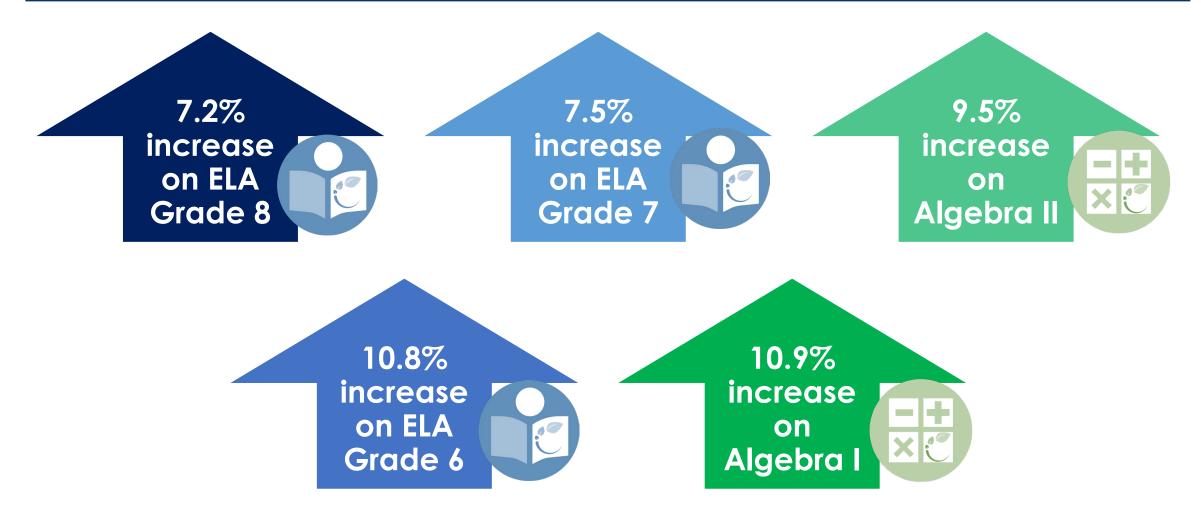


Note

Highlighted cell indicates HCPS improved in the state rankings.



MCAP Celebrations:



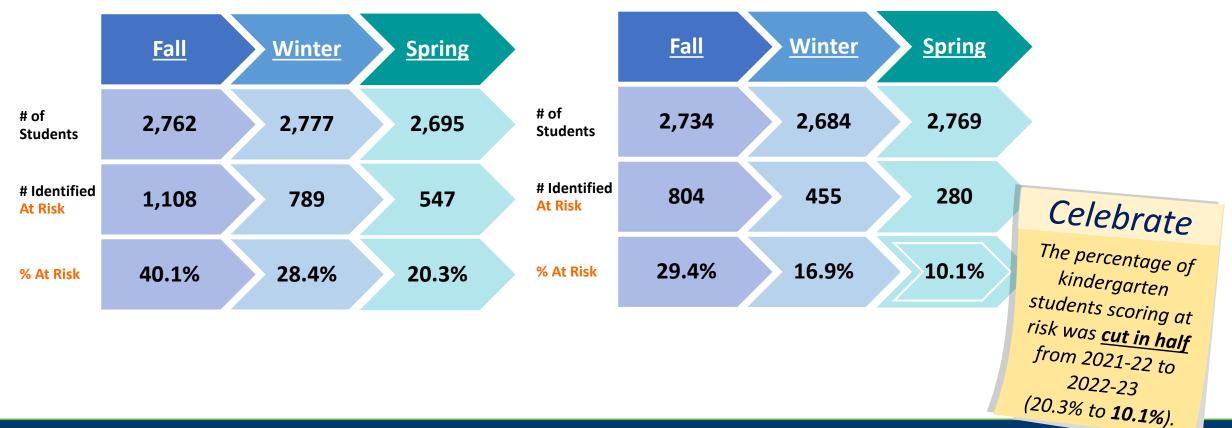


Source: Maryland State Department of Education

HCPS Local Assessment, DIBELS: Grade K, Percent at Risk

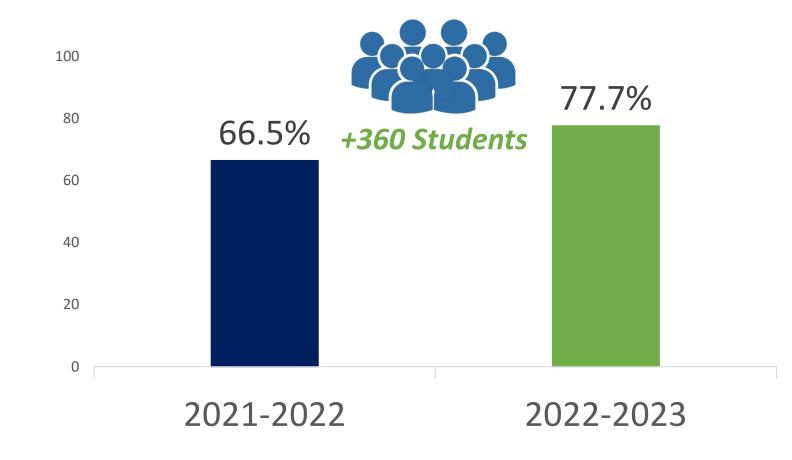
2021-2022

2022-2023





HCPS Local Assessment, DIBELS: Grade K, Percent Proficient or Advanced





Indicates the number of <u>additional</u> students this year who are proficient or advanced.

Source: Office of Accountability Internal Database

School Celebrations:

These schools demonstrated at least 30% growth from 2022 to 2023 or had a proficiency rate of at least 85%.

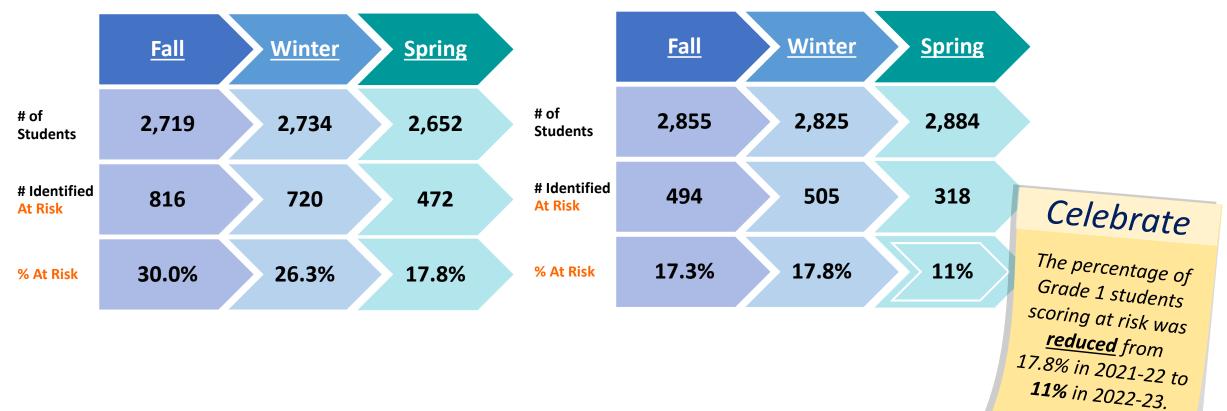
Bel Air	Meadowvale	Churchville	Norrisville	Emmorton	North Bend
Elementary	Elementary	Elementary	Elementary	Elementary	Elementary
Forest Hill	Prospect Mill	Forest Lakes	Red Pump	Hickory	Ring Factory
Elementary	Elementary	Elementary	Elementary	Elementary	Elementary
Homestead/ Wakefield Elementary	William S. James Elementary	Joppatowne Elementary	Youth's Benefit Elementary	Jarrettsville Elementary	Havre de Grace Elementary



HCPS Local Assessment, DIBELS: Grade 1, Percent at Risk

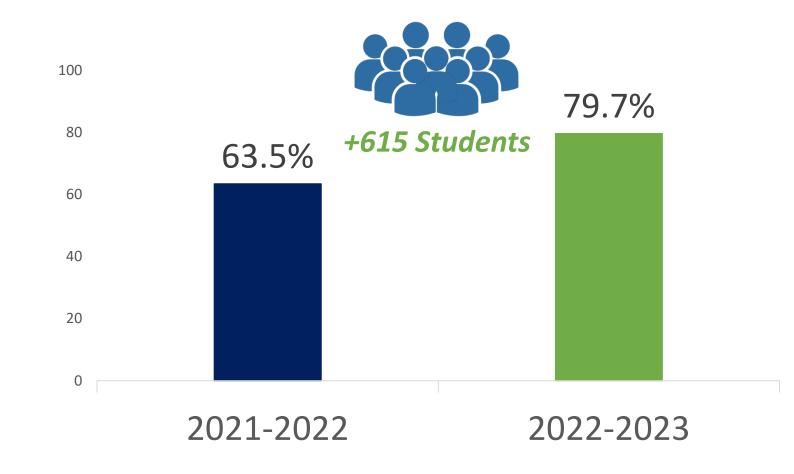
2021-2022

2022-2023



HARFORD COUNTY

HCPS Local Assessment, DIBELS: Grade 1, Percent Proficient or Advanced





Indicates the number of <u>additional</u> students this year who are proficient or advanced.

Source: Office of Accountability Internal Database



English/Language Arts (ELA) Literacy: Grades 3-8 and 10



Example Released Test Item: Grade 4

Why is Nita Upside Down?" Why the Platypus is Special	"Why is Nita Upside being different. Writ shown in both pass play to support you
Nita's hanging upside down, her long hair tickling at the ground. The trees, the grass, the everything is all the wrong way round.	B I ⊻ E
2 Her feet, they poke in the sky. Little Navi is walking by.	
3 He says, "I've seen you here before. You're upside down again! What for?"	
4 Her feet swim lightly in the air. She tries to hide behind her hair.	
"It's h-h-h-hard to t-t-talk," she says to him. "I'm not the same. I don't fit in."	
6 Navi takes her by the hand. He wants to help her understand.	
They climb to Navi's look-out spot. From up here they can	

"Why is Nita Upside Down?" and *Why the Platypus is Special* are both about being different. Write an essay that explains how the idea of being different is shown in both passages. Include specific details from **both** the poem and the play to support your answer.

abc

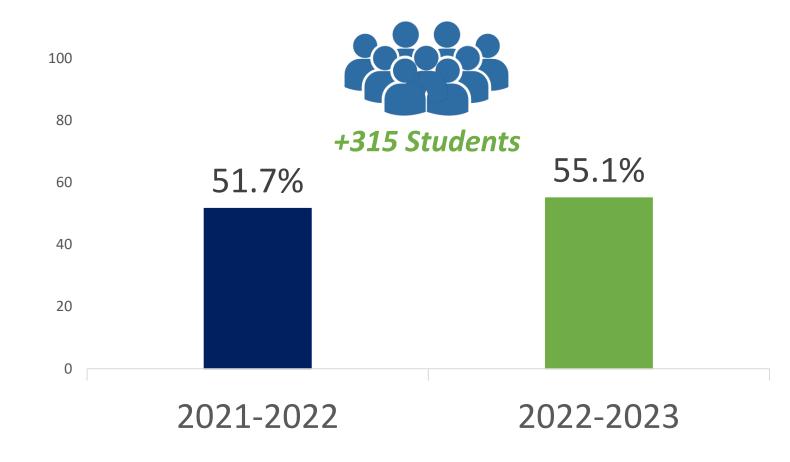
•

-



see a lot.

HCPS MCAP ELA: Grades 3-5, Percent Proficient or Advanced

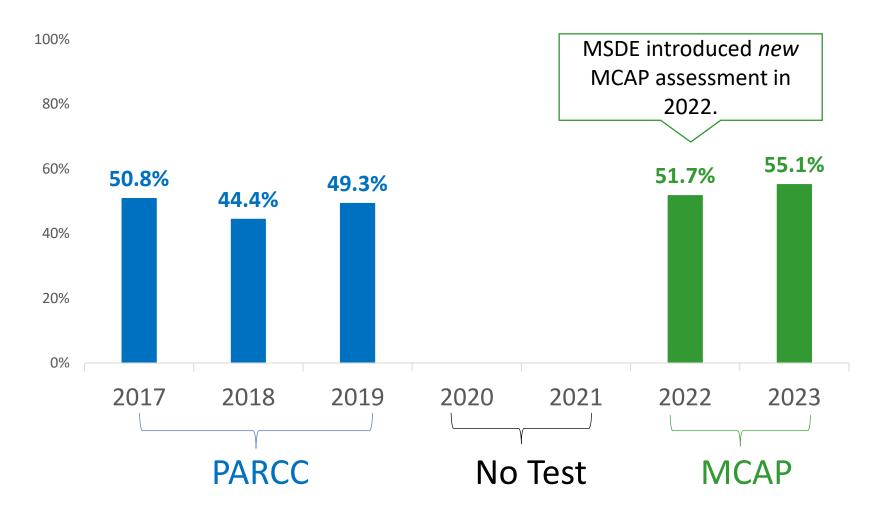




Indicates the number of <u>additional</u> students this year who are proficient or advanced.

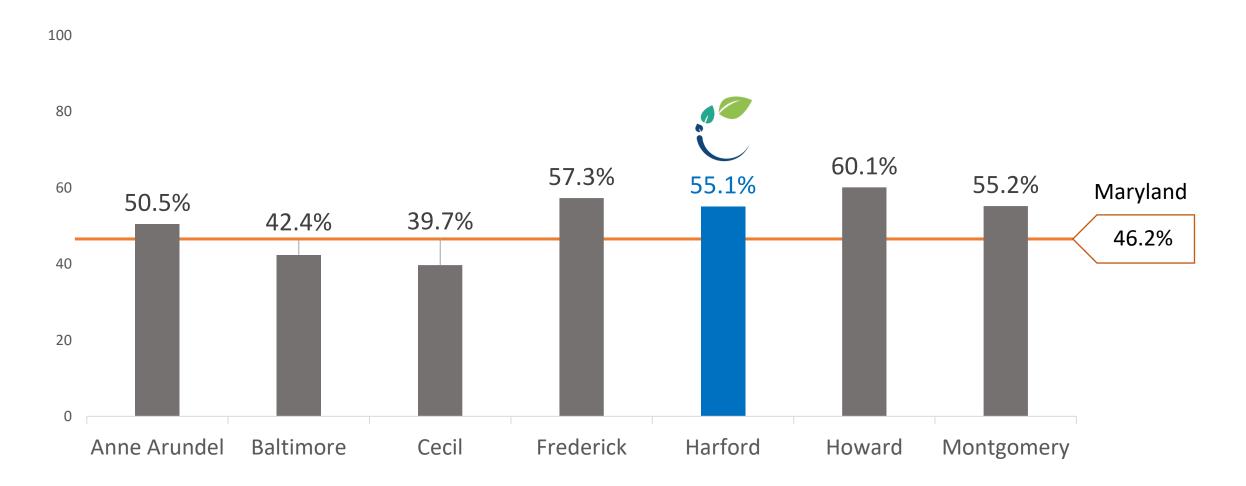
Source: Maryland State Department of Education

HCPS MCAP ELA: Grades 3-5, Historical 2017-2023



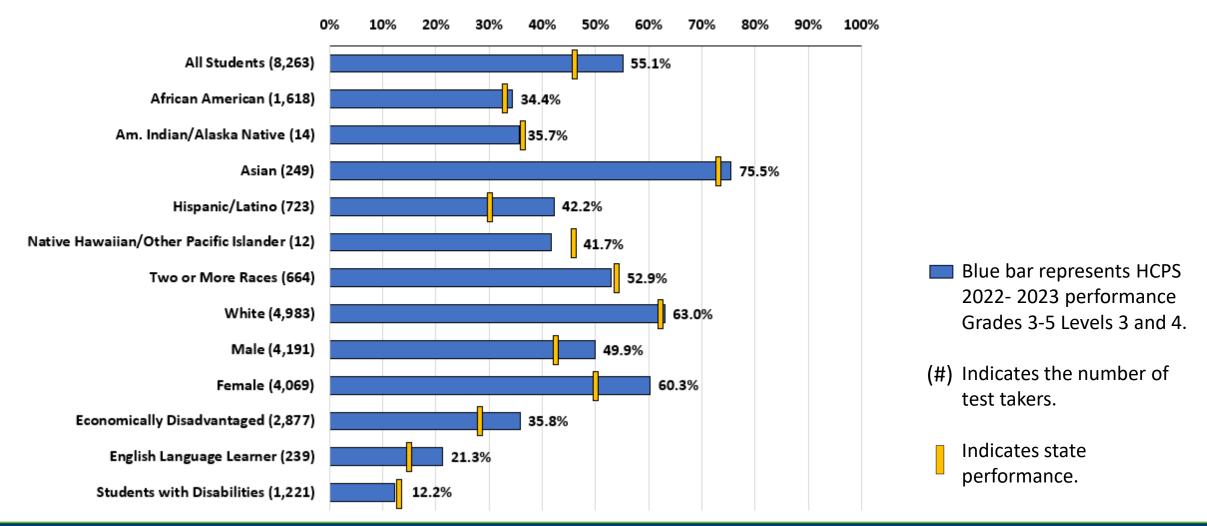


MCAP ELA: Grade 3-5, LEA Comparison





MCAP ELA: Grades 3-5, Student Group Comparison to State







These schools demonstrated at least 15% growth from 2022 to 2023 or had a proficiency rate of at least 70%.



Example Released Test Item: Grade 6

Dissect a Flower Venus

Venus Flytrap

Today you will read the passages "Dissect a Flower" and "Venus Flytrap." Then you will answer questions about the passages and write a response in which you analyze both texts.

This passage describes an activity where students could dissect, or take apart and examine, the parts of a flower. Read the passage "Dissect a Flower." Then answer the questions.

Dissect a Flower

by Svenja Lohner



Read each statement and select a box to show whether it is supported by "Dissect a Flower," "Venus Flytrap," or **both** passages. Choose only **one** box per row.

Statement	"Dissect a Flower"	"Venus Flytrap"	Both
Some plants have qualities that people appreciate.	0	0	0
Some plants have flowers that produce a pleasing scent.	0	0	0
Some plants are at risk due to worsening growth conditions.	0	0	\bigcirc
Some plants can go for months without feeding.	0	0	\bigcirc



Example Released Test Item: Grade 8

Read the passage "Is Listening to a Book the Same Thing as Reading It?" Then answer the questions.

Is Listening to a Book the Same Thing as Reading It?

by Daniel T. Willingham

A few years ago, when people heard I was a reading researcher, they might ask about their child's dyslexia or how to get their teenager to read more. But today the question I get most often is, "Is it cheating if I listen to an audiobook for my book club?"

Audiobook sales have doubled in the last five years while print and e-book sales are flat. These trends might lead us to fear that audiobooks will do to reading what keyboarding has done to handwriting — rendered it a skill that seems quaint and whose value is open to debate. But examining how we read and how we listen shows that each is best suited to different purposes, and neither is superior.

3 In fact, they overlap considerably. Consider why audiobooks are a good workaround for people with dyslexia: They allow listeners to

Read the following list of author's purposes. For **each** paragraph listed in the chart, select the appropriate purpose and place it in the correct location in the chart. **One** purpose will **not** be used.

establishes the author's credibility on the subject

predicts what may be different in the future

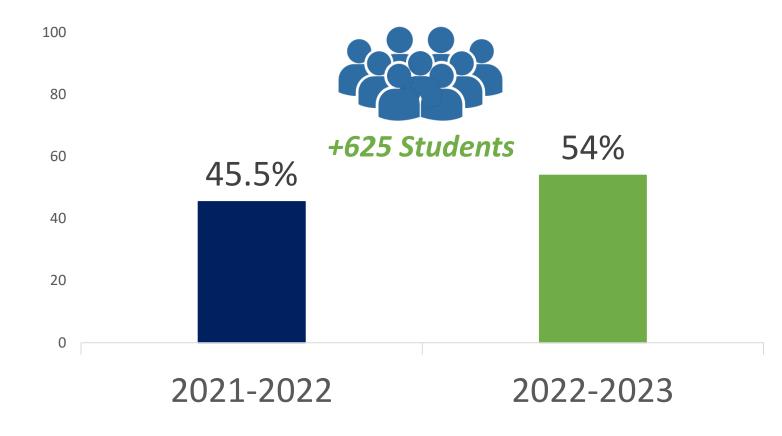
explains what will likely remain constant

describes the results of research

Paragraph	Purpose
paragraph 1	
paragraph 7	
paragraph 13	



HCPS MCAP ELA: Grades 6-8, Percent Proficient or Advanced

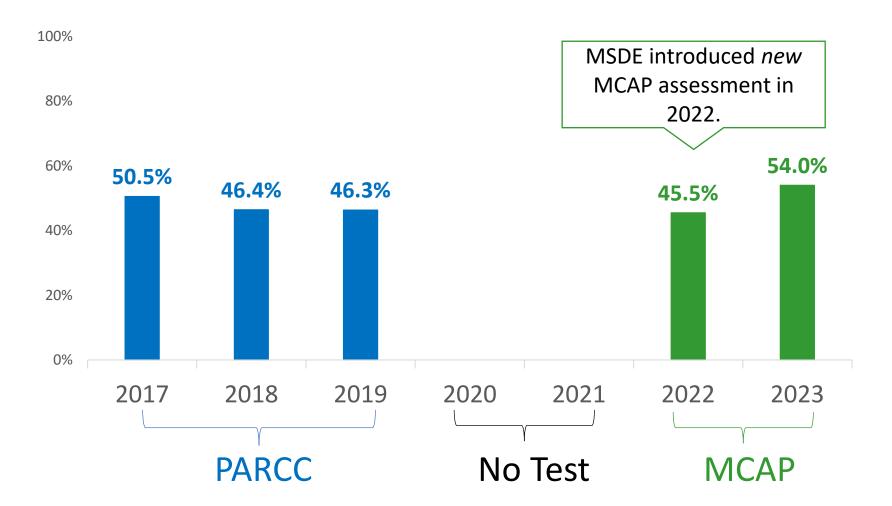




Indicates the number of <u>additional</u> students this year who are proficient or advanced.

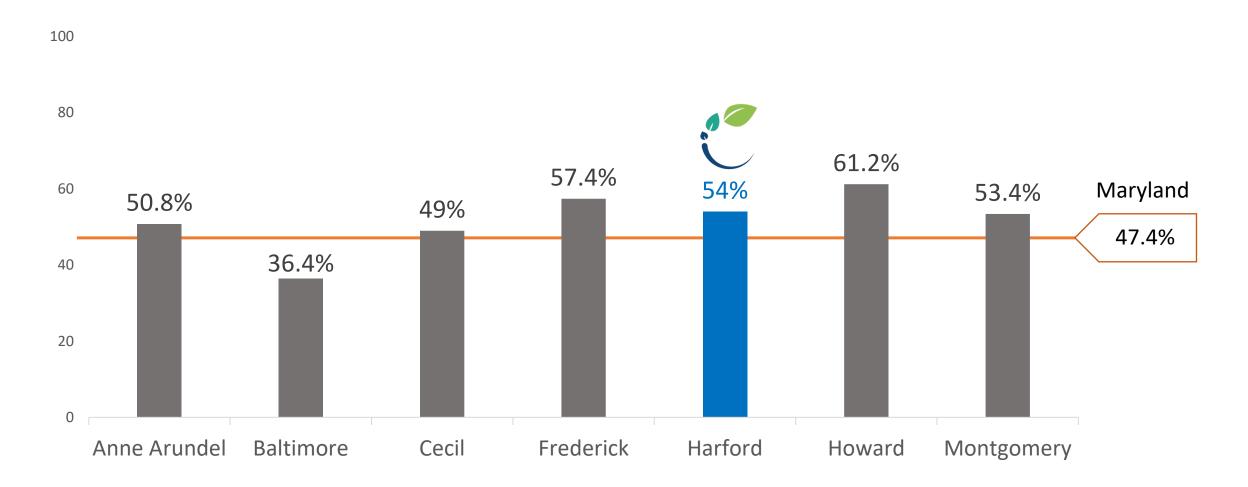
Source: Maryland State Department of Education

HCPS MCAP ELA: Grades 6-8, Historical 2017-2023



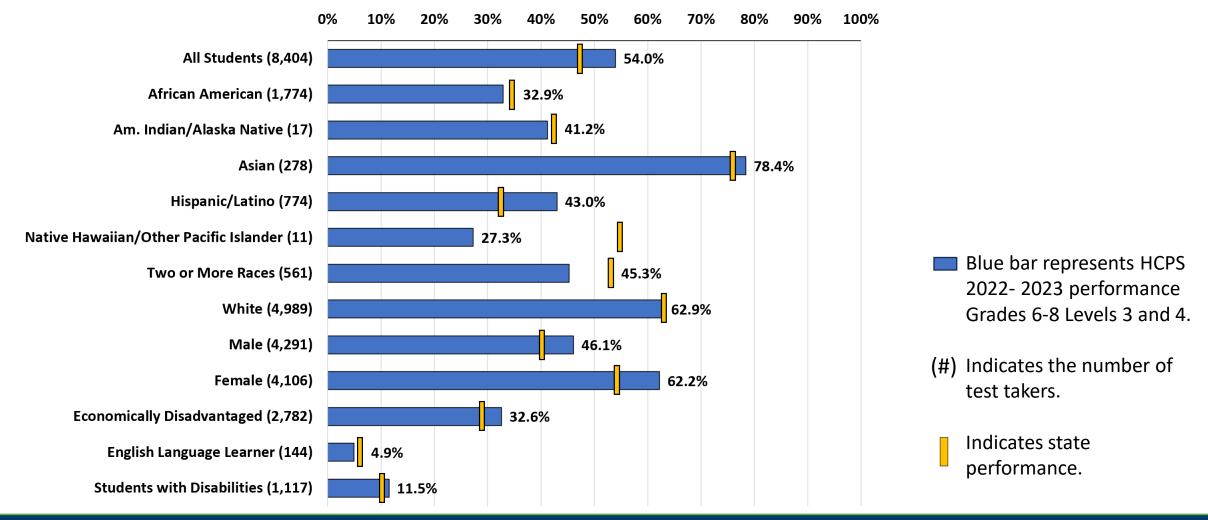


MCAP ELA: Grade 6-8, LEA Comparison





MCAP ELA: Grades 6-8, Student Group Comparison to State







These schools demonstrated at least 15% growth from 2022 to 2023 or had a proficiency rate of at least 70%.

Aberdeen Middle,	Fallston Middle,	Havre de Grace
grade 6	grades 6 and 8	Middle, grade 6
North Harford Middle, grade 7	Patterson Mill Middle, grades 6 and 8	Southampton Middle, grades 6-8



Example Released Test Item: Grade 10

Happiness Doesn't Follow Success: It's the Other Way Around

Working Hard Even If You Might Lose

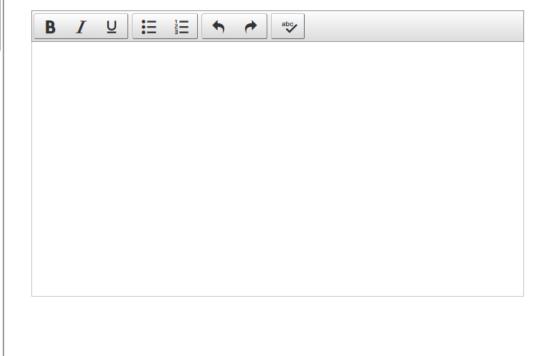
Today you will read the passage "Happiness Doesn't Follow Success: It's the Other Way Around" as well as the passage "Working Hard Even If You Might Lose." Then you will answer questions about the passages and write a response in which you analyze both passages.

Read the passage "Working Hard Even If You Might Lose." Then answer the questions.

Working Hard Even If You Might Lose

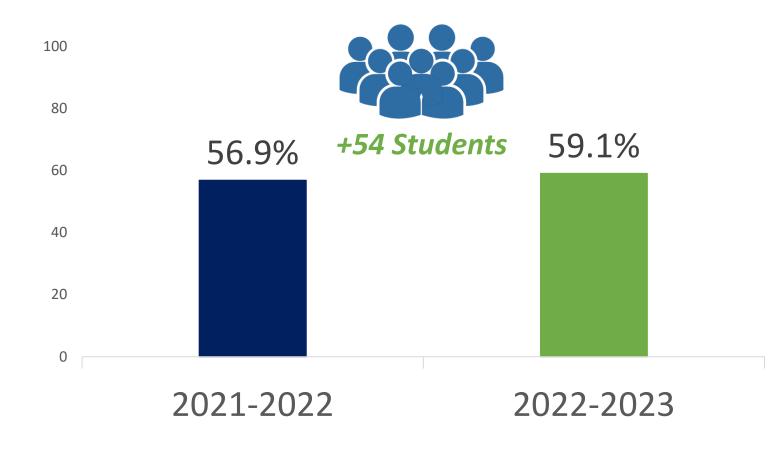
by Amanda Baker

• Everyone has a preferred type of inspirational video. Maybe it's the compiled attempts of a young girl learning to box jump to the height of her waist. Maybe it's someone playing a particular piece on violin perfectly all the way through for the first time. Maybe it's following a Rube Goldberg machine from start to finish. Each video has buildup, anticipation, and that shared desire to throw up your The authors of the passages "Happiness Doesn't Follow Success: It's the Other Way Around" and "Working Hard Even If You Might Lose" use multiple sources to develop their central claims. Write a response evaluating which authors or author more effectively supports their argument. Be sure to include textual evidence from **both** passages as you develop your response.





HCPS MCAP ELA: Grade 10, Percent Proficient or Advanced

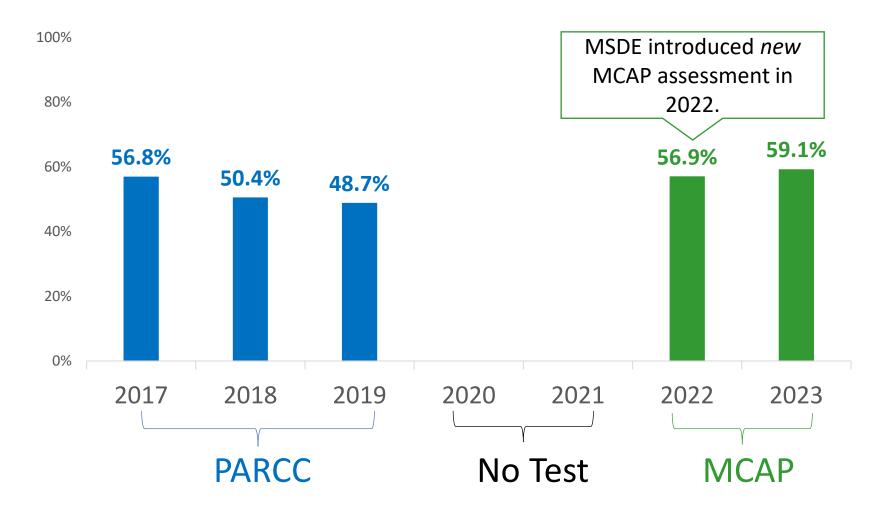




Indicates the number of <u>additional</u> students this year who are proficient or advanced.

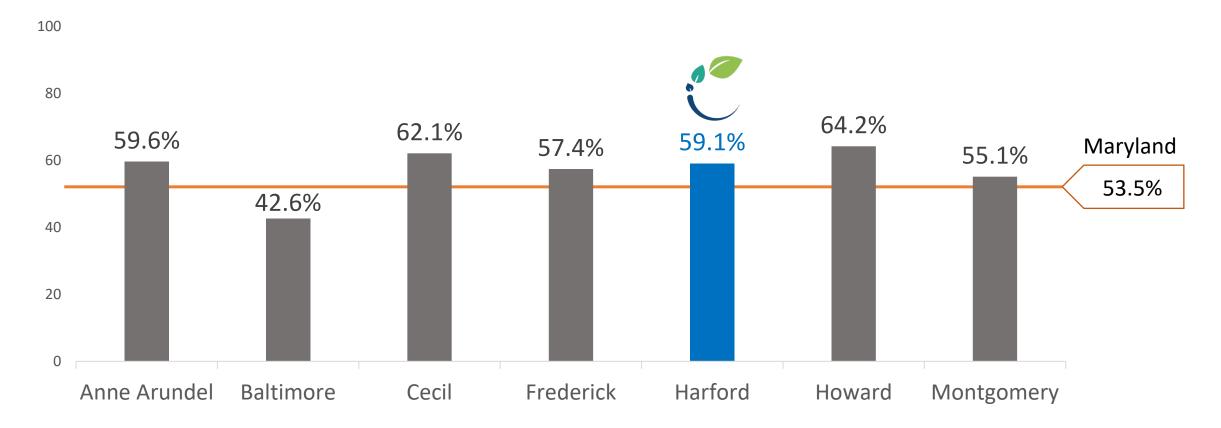
Source: Maryland State Department of Education

HCPS MCAP ELA: Grade 10, Historical 2017-2023



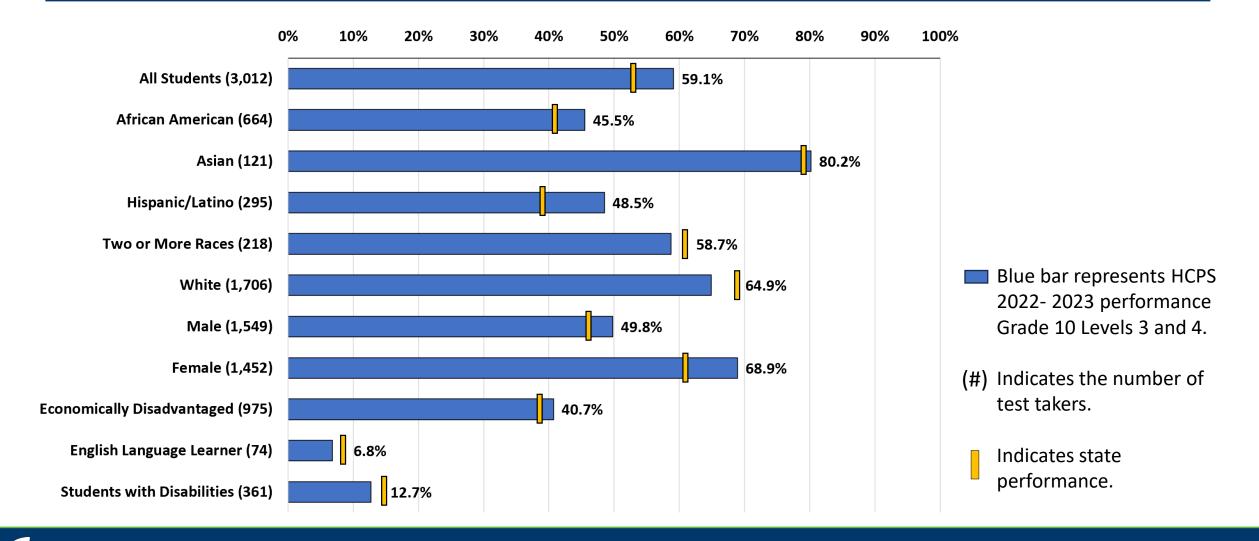


MCAP ELA: Grade 10, LEA Comparison





MCAP ELA: Grade 10, Student Group Comparison to State



RD COUNTY



These schools demonstrated at least 10% growth from 2022 to 2023 or had a proficiency rate of at least 70%.







Mathematics: Grades 3-8 Algebra I (Middle & High)



Example Released Test Item: Grade 3

Wylie Elementary School has students in 1^{st} through 6^{th} grade.

The table shows the number of present and absent students for different grades on a certain day.

School Attendance

Grade	Number of Students Present	Number of Students Absent
2^{nd} grade	85	14
3^{rd} grade	104	13
4^{th} grade	96	18

Which **two** questions could be answered based on the information in the table?

Select the two correct answers.

- A. What is the total number of students in the school?
- B. What is the total number of students who are in the 1^{st} grade?
- \square C. What is the total number of students who are in the 4^{th} grade?
- $\hfill\square$ D. What is the total number of absent students on that day in the 2^{nd} grade and the 3^{rd} grade?
- \square E. What is the total number of present students on that day in the 5^{th} grade and the 6^{th} grade?



Example Released Test Item: Grade 5

A student performed the division problems shown.

1875 ÷ 15 = 125

3825 ÷ 15 = 255

The student claims that when a 4-digit number ending in 5 is divided by 15, the quotient always ends in 5 and there is no remainder.

Determine whether the student's claim is correct or incorrect. If the claim is correct, explain why it is correct. If the claim is incorrect, give two examples that prove that it is incorrect.

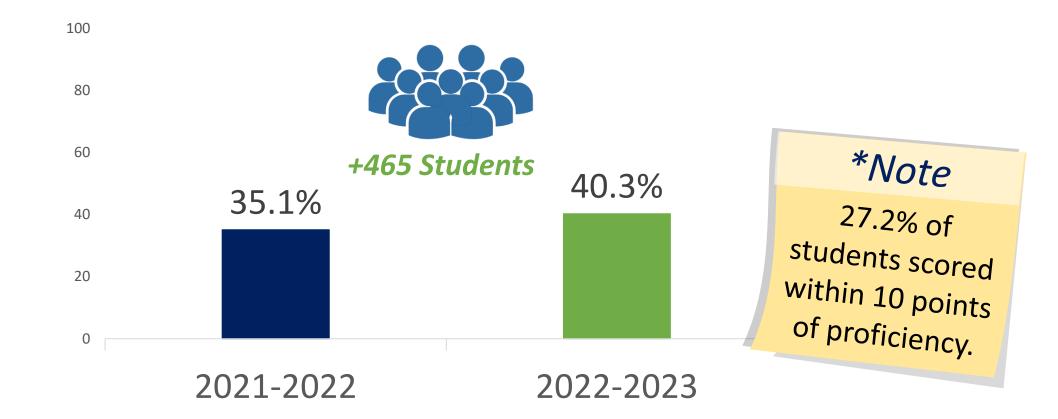
Enter your answer and your work or explanation in the space provided. You may also use the drawing tool to help explain or support your answer.







HCPS MCAP Math: Grades 3-5, Percent Proficient or Advanced

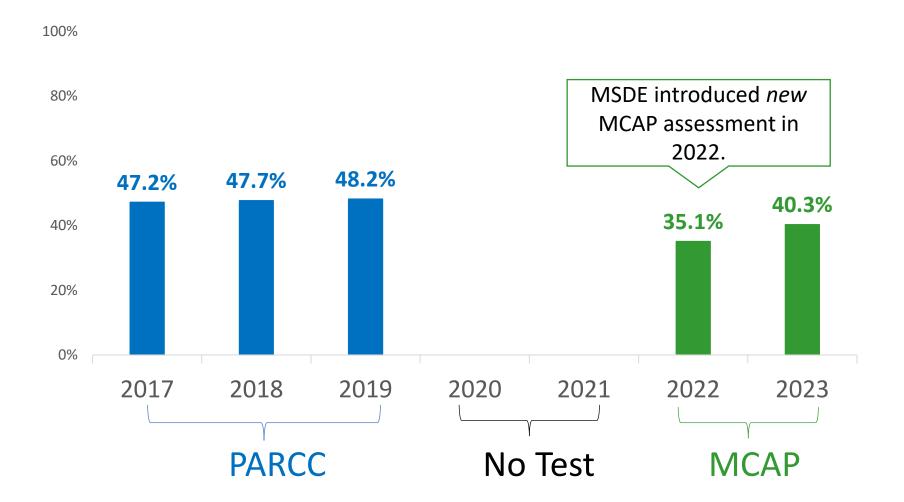




Indicates the number of <u>additional</u> students this year who are proficient or advanced.

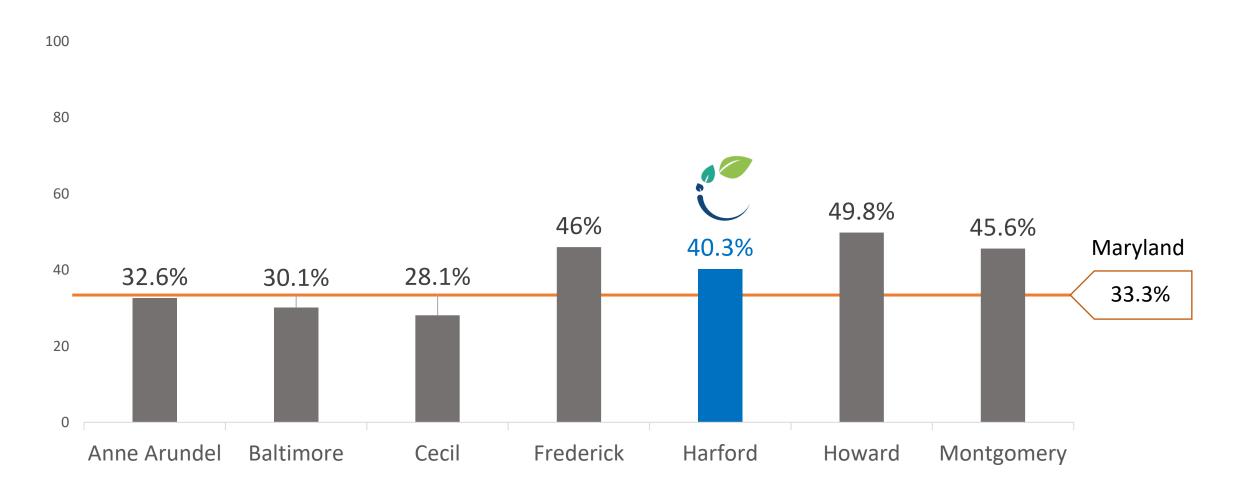
Source: Maryland State Department of Education

HCPS MCAP Math: Grades 3-5, Historical 2017-2023



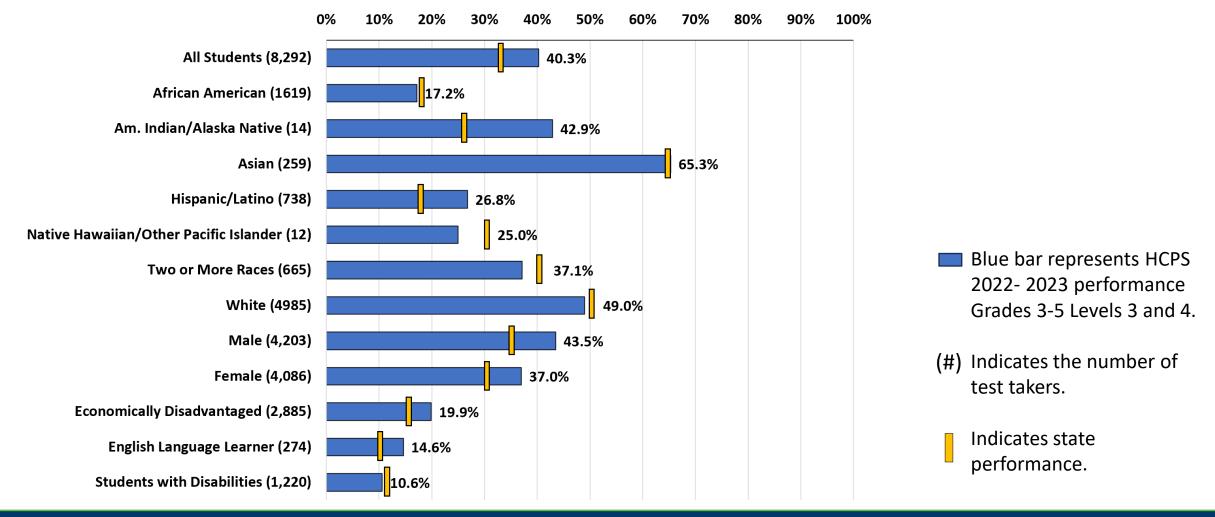


MCAP Math: Grades 3-5, LEA Comparison





MCAP Math: Grades 3-5, Student Group Comparison to State





MCAP Math: Grades 3-5, School Celebrations

These schools demonstrated at least 15% growth from 2022 to 202 or had a proficiency rate of at least 70%.

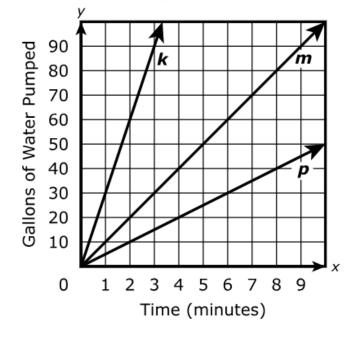
Elementary, Eler		Eleme	erfield Bel entary, Eleme s 3 and 5 grad		ntary, Element		entary,	Edgewood Elementary, grade 3	
Fountain Green Elementary, grade 5		George D. Lisby Elementary, grade 3		Hall's Cross Roads Elementary, grade 4		Homestead/ Wakefield Elementary, grade 3		Jarrettsville Elementary, grade 5	
	Norri Eleme grac	ntary,	Prospe Eleme grac	ntary,	Eleme	Pump entary, de 3		S. James entary, de 5	



Example Released Test Item: Grade 7

A hotel wants to buy a pump to fill a hot tub with water. The lines graphed on the coordinate grid represent the rates at which three pumps can fill the hot tub with water.





The hotel determined that the slowest of the three pumps can fill the hot tub with water in 90 minutes. Using this information, explain how to determine the number of minutes it will take for the fastest of the three pumps to fill the hot tub with water.

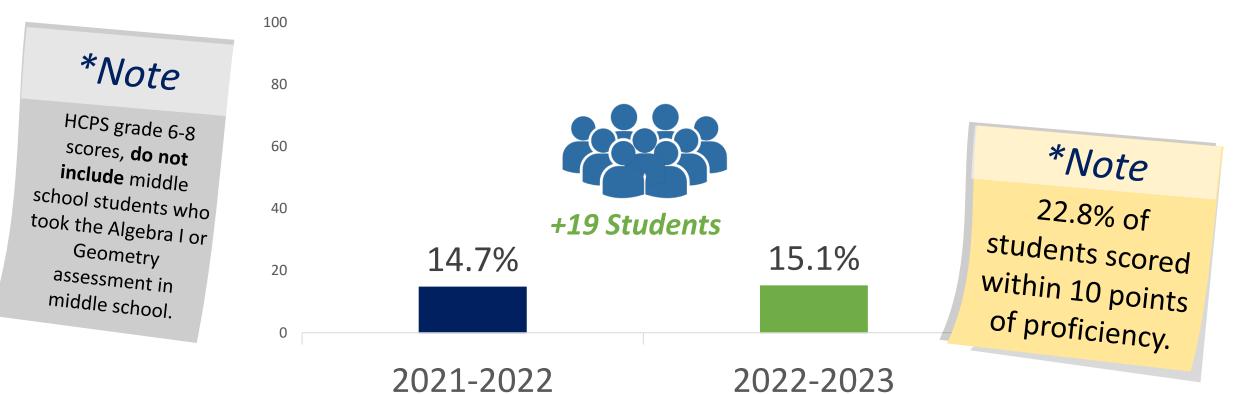
Enter your answer and your justification in the space provided. You may also use the drawing tool to help explain or support your answer.







HCPS MCAP Math: Grades 6-8, Percent Proficient or Advanced

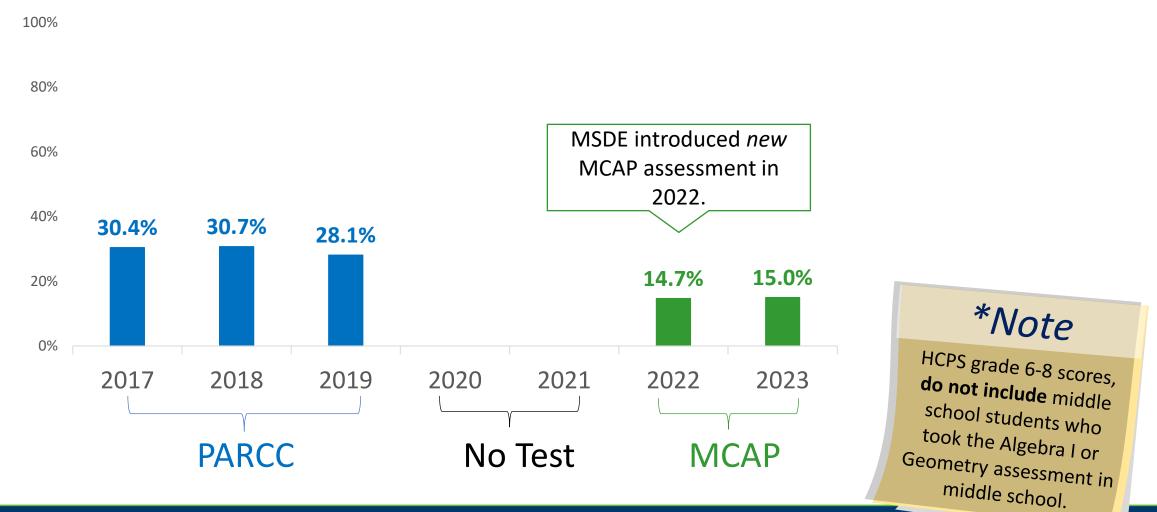




Indicates the number of <u>additional</u> students this year who are proficient or advanced.

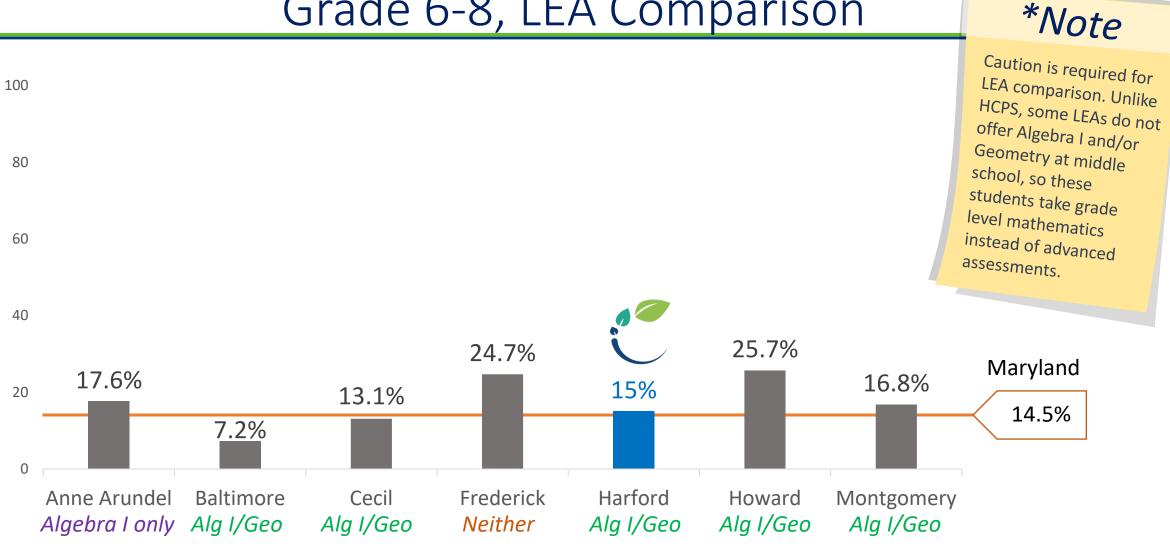
Source: Maryland State Department of Education

HCPS MCAP Math: Grades 6-8, Historical 2017-2023





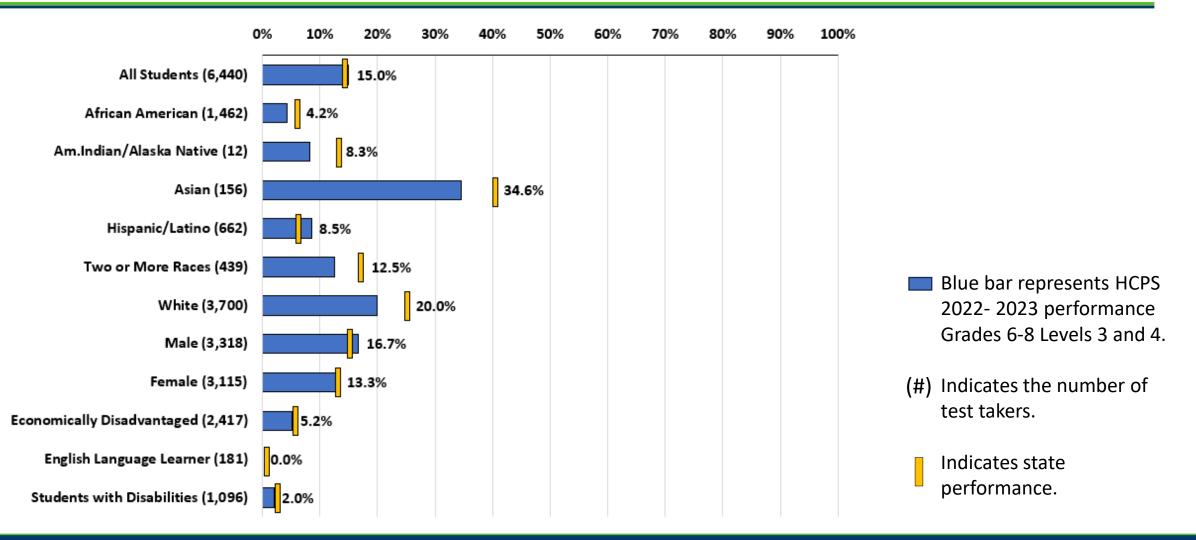
MCAP MATH: Grade 6-8, LEA Comparison





MCAP Math:

Grades 6-8, Student Group Comparison to State





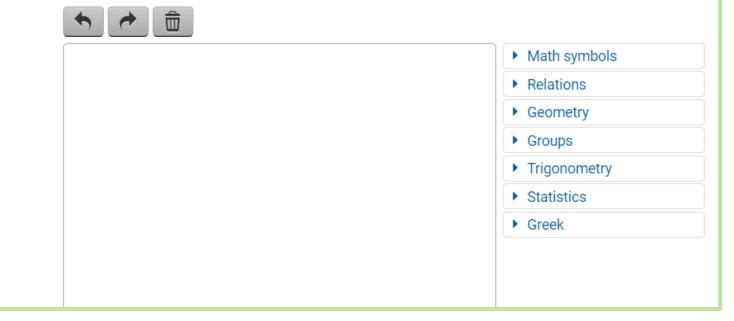
Example Released Test Item: *Algebra 1*

The system of equations shown is graphed in the xy-plane.

$$\begin{cases} x+y=1\\ 2x-3y=17 \end{cases}$$

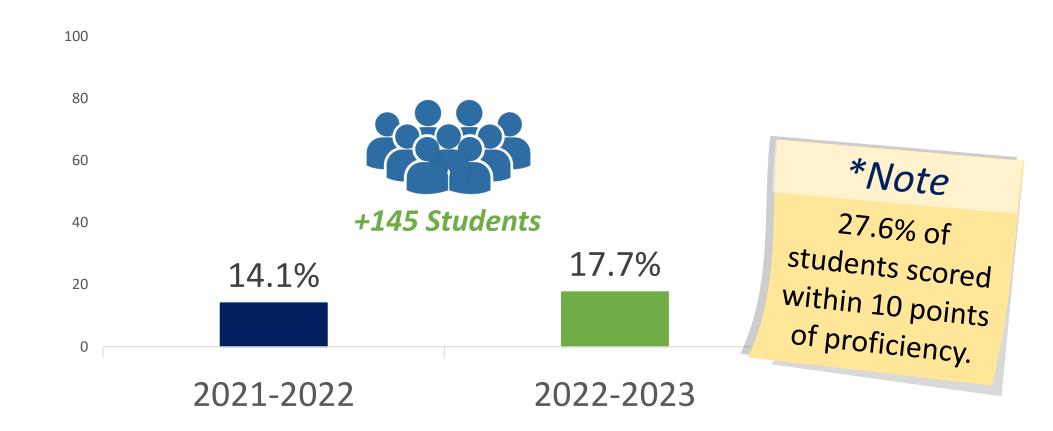
Determine the coordinates of the solutions of the system algebraically. Then show that your solution is valid. Show your work or explain how you found your answer.

Enter your answer and your work or explanation in the space provided. You may also use the drawing tool to help explain or support your answer.





HCPS MCAP Math: Algebra I (Middle & High), Percent Proficient or Advanced

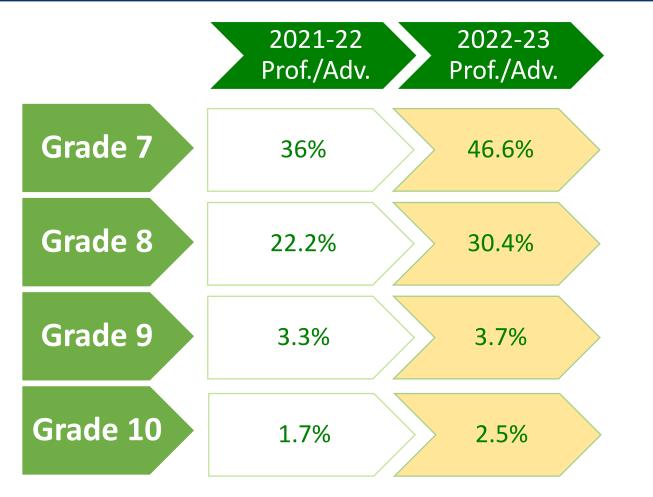




Indicates the number of <u>additional</u> students this year who are proficient or advanced.

TY Source: Maryland State Department of Education

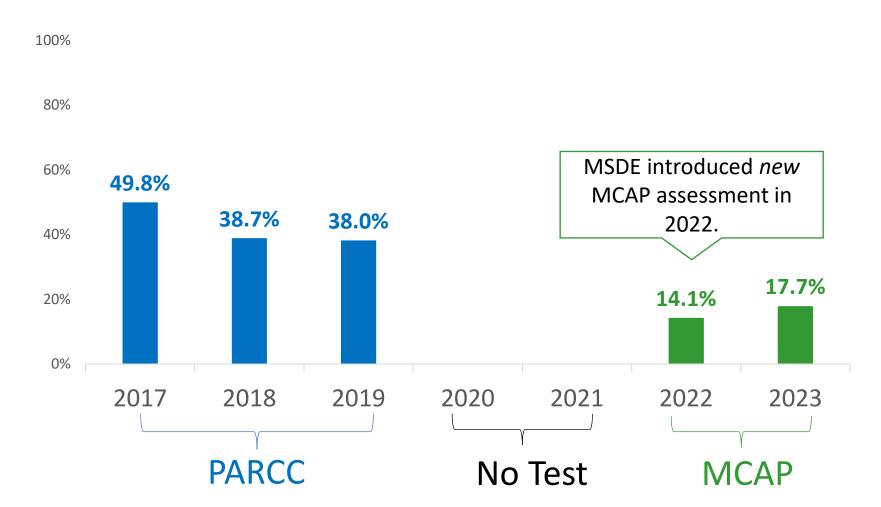
HCPS MCAP Math: Algebra I (Middle & High), Grade Level Comparison



Note Highlighted cell indicates HCPS improved in grade-level results.

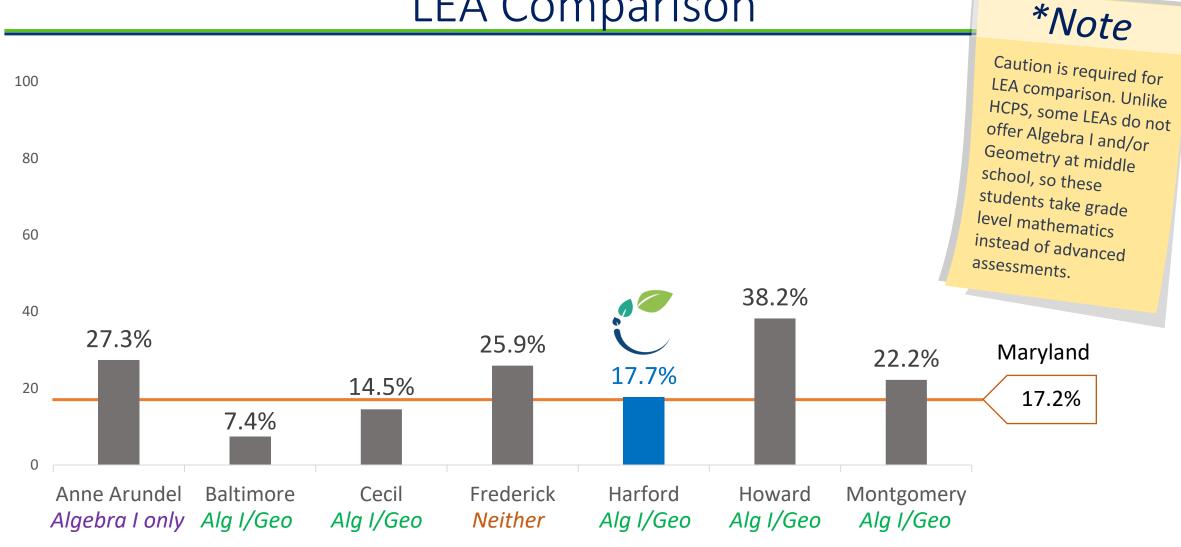


HCPS MCAP Math: Algebra I (Middle & High), Historical 2017-2023



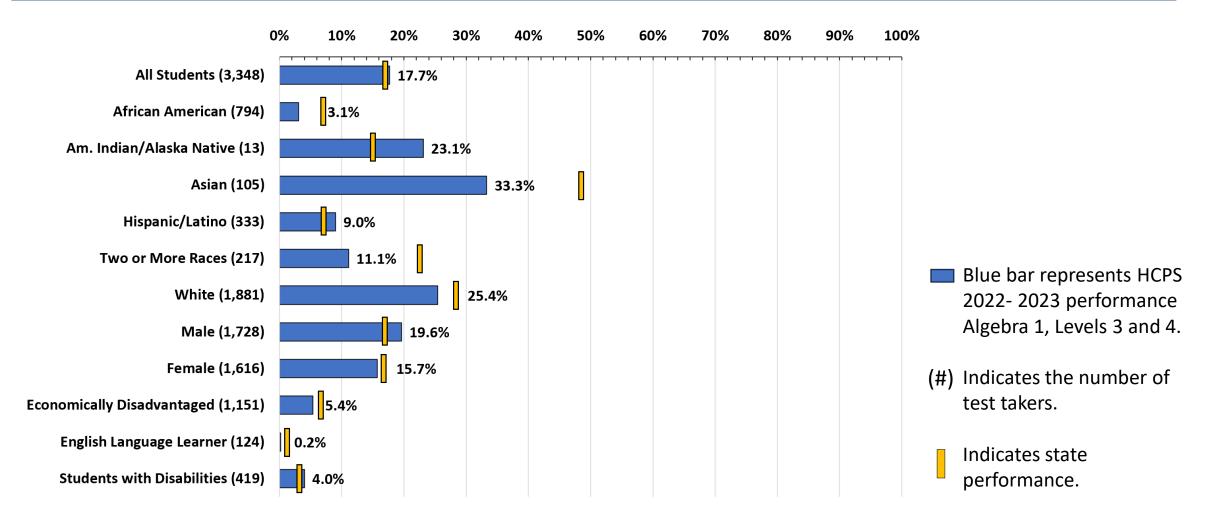


MCAP Math: Algebra I (Middle & High), LEA Comparison

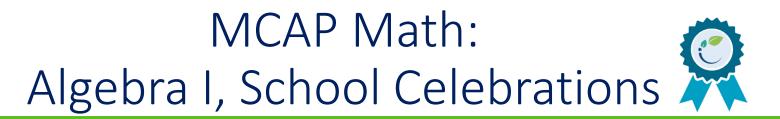




MCAP Math: Algebra I (Middle & High), Student Group Comparison to State







These schools demonstrated at least 10% growth from 2022 to 2023 or had a proficiency rate of at least 70%.





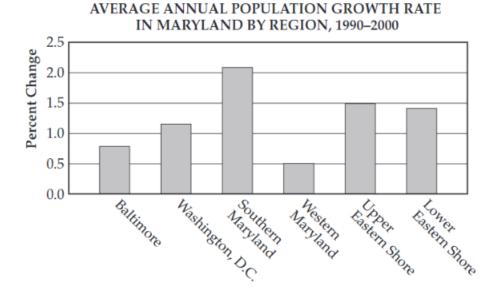


Social Sciences: Grade 8 – *Results Not Yet Available*; American Government, Grade 9



Example Released Test Item: American Government, Grade 9

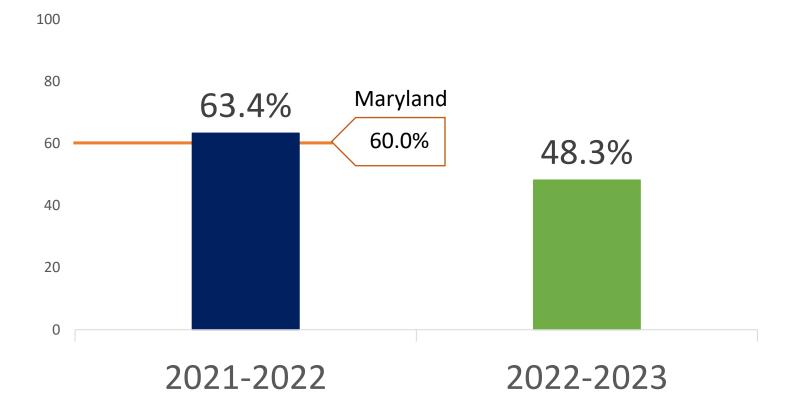
Study the graph below and use it to answer the **BRIEF CONSTRUCTED RESPONSE** that follows.



- Using the information in the bar graph, identify funding decisions the Maryland General Assembly would make regarding money for local governments.
- Describe the effects these decisions would have on local government decisions.
- Include details from the graph to support your answer.



HCPS Social Sciences: American Government, Percent Proficient or Advanced







This school had a proficiency rate of at least 70%.

Harford Technical High



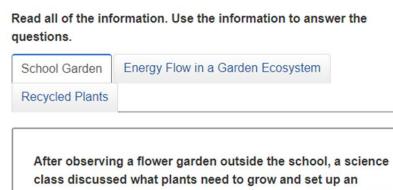




Science: Grades 5 & 8, Life Science (High School)

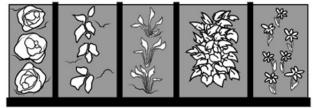


Example Released Test Item: MISA, Grade 5



After observing a nower garden outside the school, a science class discussed what plants need to grow and set up an investigation with the help of the teacher. The students added compost, organic matter used to help plants grow, to the soil. They then planted the seeds of five different plants. The students made sure the soil was watered each day. After a few weeks, the plants started to sprout, and the students observed the growth of each plant. A diagram of the school garden is shown.

THE SCHOOL GARDEN



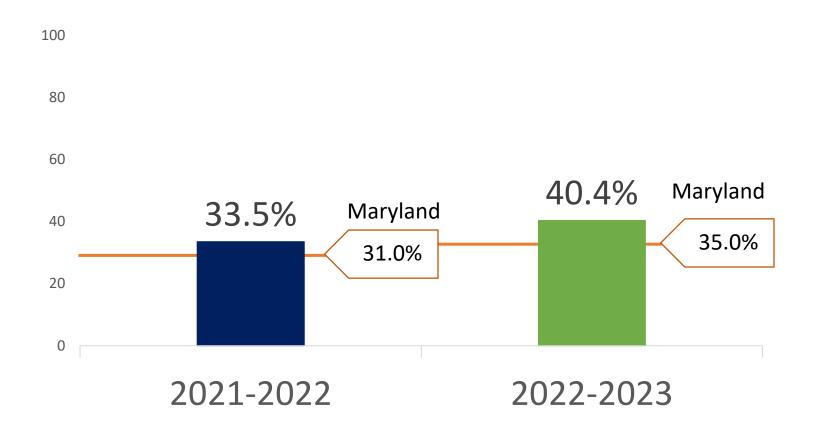
Lettuce Radishes Carrots Cucumbers Flowers

The compost in the school garden contained pieces of nonliving plants. The plant matter was most likely placed in the compost to be

- A. eaten by the crickets.
- B. used as shelter by the snakes.
- O C. used as nutrients for the hawk.
- D. broken down by the decomposers.



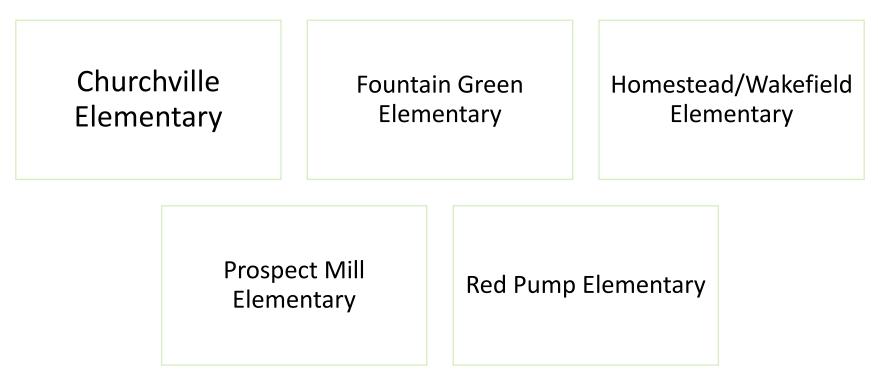
HCPS MISA : Grade 5, Percent Proficient or Advanced





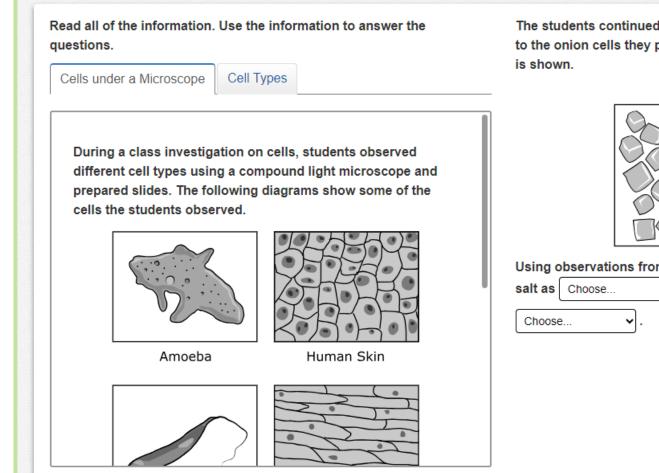


These schools demonstrated at least 15% growth from 2022 to 2023 or had a proficiency rate of at least 70%.

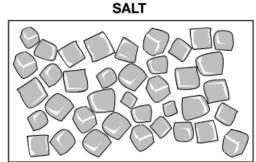




Example Released Test Item: MISA, Grade 8

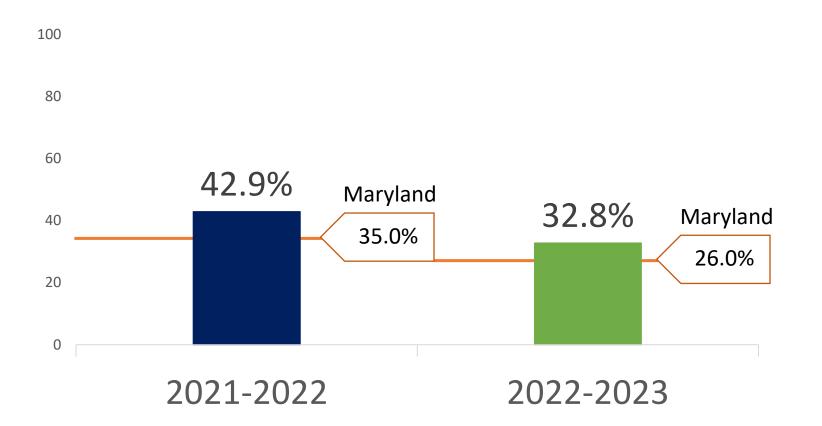


The students continued using the microscope and compared table salt to the onion cells they previously observed. A diagram of the table salt is shown.





HCPS MISA : Grade 8, Percent Proficient or Advanced





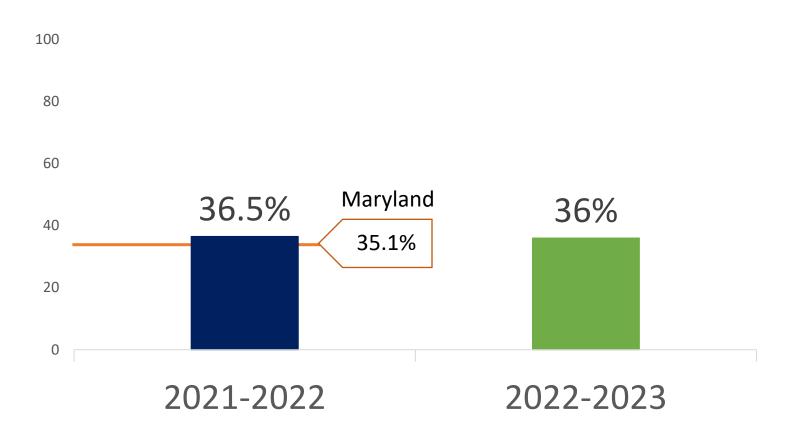
Example Released Test Item: MISA, Life Science, Grade 9

Question 9 V			Magnification Tool:	Q		
Tab 1	Tab 2	Which statements identify transfers of occur with in the cyanobacteria? Sel				
Та	b 3	Hide All				
Read the information on each tab. questions.	Use the information to answer the	 A Sugars from photosynthesis are used to perform cellular respiration in order to release energy. 				
Cyanobacteria		Photosynthetic organisms u CO ₂ to support life function maintain cells.				
Cyanobacteria are single-celled or Scientists think that they were the photosynthesis. They can exist in including freshwater and saltwater the processes that take place in th	first organisms to complete a wide range of aquatic habitats, environments. The model shows	Non-photosynthetic organisms use the additional energy left over from photosynthesis to build and maintain cells.				
	ria Processes	Energy stored in the sugar consumers when they eat the sugar stored in the sugar consumers when they eat the sugar stored in the sugar stored i				
Input Chlor	un ophyll Iular ration Output	Energy created during photophotosynthetic organisms is photosynthetic organisms a	s transferred to			



HCPS MISA:

Life Science (High School), Percent Proficient or Advanced







SPOTLIGHT: Bakerfield Elementary & Aberdeen Middle

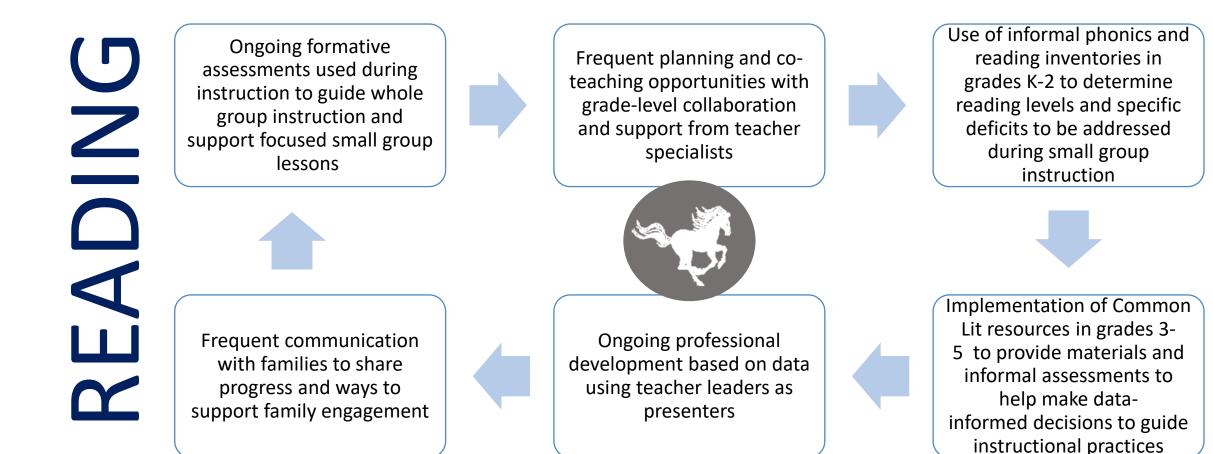


Spotlight: Bakerfield Elementary, Celebrations

Grade 3:	Grade 4:	Grade 5:
 All students: +30.5% African American students: +30% 	 All Students: +19% African American Students: -7.5% 	 All Students: +8% African American Students: +7.4%
All students: +30.6% African American students: +44.6%	 All Students: +3.3% African American Students: -5.5% 	 All Students: +15.5% African American Students: +4.9%

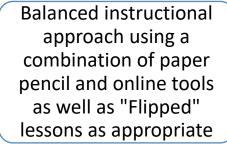


Spotlight: Bakerfield Elementary, Instructional Practices



Spotlight: Bakerfield Elementary, Instructional Practices

Frequent planning and co-teaching opportunities with grade-level collaboration & support of teacher specialists Ongoing use of communication tasks focused on relevant math skills where students are taught clear mathematical communication using content vocabulary, modeling, and reasoning with learning rubrics to support student understanding and self-reflection





Frequent communication with families to share progress and ways to support family engagement

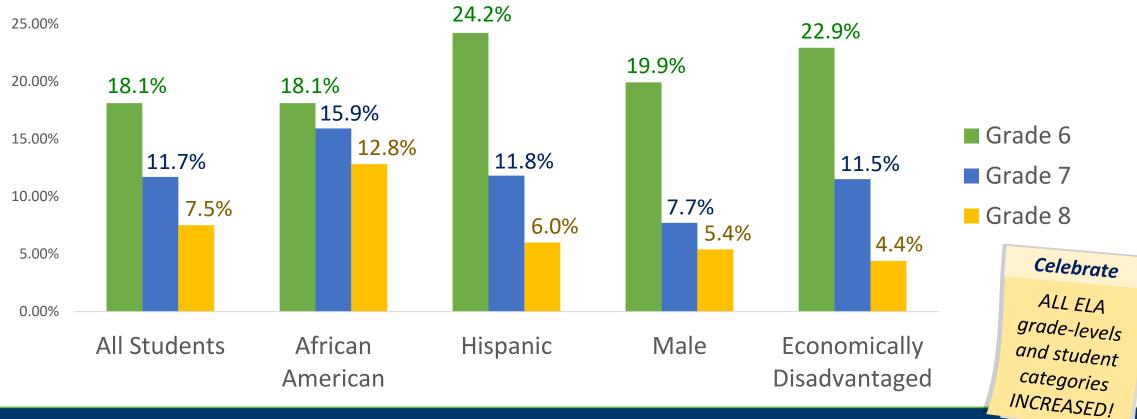
Ongoing professional development based on data using teacher leaders as presenters





Percent (%) Increase from 2022 to 2023

30.00%





Spotlight: Aberdeen Middle, Essential Partners for Success

Be kind. Show grace. Explore Perspectives. Grow Together.

Teacher Specialist for School Performance and Achievement Dr. Bridgette Bell

- School Performance and Achievement Team
- Professional Learning
- Student Support

Literacy Specialist Brittany Booker

- Professional Learning Community – RELA
- Professional Learning build capacity for new RELA teachers (Units of Study)
- Co-teaching/Modeling
- Creation of common assessments – standardsbased
- Toolkits

Instructional Coaches Nicole McClurg and Laura Knapp

- Non-evaluative
- Data collection
- Best Practices
- Co-teaching/Modeling
- Regular check-ins

Instructional Assessment and Data Specialist Kelly Hughes

- School Testing Coordinator - RI/MI/MCAP/NAEP
- Professional Learning Communities (all content areas)
- Data analysis for individual teachers – increase opportunities for testing and scoring



Spotlight: Aberdeen Middle, Keys to Success

Be kind. Show grace. Explore Perspectives. Grow Together.



School Performance & Achievement (SPA): Attendance and Reading Goals



RI/MI Participation



Goal-setting: Students track progress; celebrate successes



MCAP Mondays/6th grade PLC – utilized public release samples from Grades 4, 5, and 6; teachers prepared students for the types of texts, questions, and written responses they would see; practiced test-taking strategies to ensure maximum point value for responses





Resources

