

What Your Child Will Learn in Fifth Grade

Greetings Fifth Grade Parents!

In Harford County Public Schools (HCPS), we are committed to ensuring that every child graduates having received an outstanding education. We know that you as parents are integral to this process and want you to know the role that the Maryland College and Career-Ready Standards (MCCRS) serve in the implementation of our curriculum.

How do the MCCRS relate to the Common Core State Standards?

In school year 2013-2014, Maryland implemented the MCCRS in all schools across the state. Maryland's new standards are based on the Common Core State Standards (CCSS), a set of consistent, high-quality academic goals in English language arts and mathematics, adopted by Maryland and more than 40 other states. The MCCRS define the knowledge and skills all students should master by the end of each grade level in order to graduate from high school fully prepared to enter college and the workforce.

What is the connection between the MCCRS and the HCPS curriculum?

The MCCRS guide HCPS instructional leaders to develop and refine curriculum so that teachers consistently create lessons that give our students the most essential knowledge and skills they need to progress academically.

What will lessons look like in the classroom?

Teachers are encouraged to create engaging and interactive lessons, integrating technology when appropriate. Our teachers provide the best environment for learning so that our children grow as learners but also gain the content and skills necessary to become productive members of our workforce and society.

How do the MCCRS affect all content areas?

The MCCRS clearly define benchmarks for learning in reading, writing, and mathematics. The literacy expectations for English language arts are clearly outlined, but just as importantly, so are the expectations for literacy in all content areas. For students to be college and career ready, they must be proficient in reading and writing complex informational and technical texts. This means that instruction in EVERY classroom focuses on both the critical content as well as the reading and writing skills necessary to demonstrate a comprehensive understanding of that discipline.

How can you support your child at home?

As you review this brochure, think about ways you can support your child's learning at home. We need your help as we implement our curriculum and hold students to the highest standards of academic performance. Through a strong partnership with you, we will ensure that your child is fully prepared for success in school, work, and life.



A Sample of What Your Child Will Learn

ENGLISH LANGUAGE ARTS

Reading

- Quote accurately from a text when explaining what is directly stated and when drawing inferences.
- Determine a theme of a story, drama, or poem.
- Describe how a narrator's or speaker's point of view influences how the events are described.
- Analyze multiple accounts of the same event or topic.
- Explain how an author uses reasons and evidence to support particular points in a text.
- Integrate information from several texts on the same topic in order to write or speak about the subject.

Writing

- Write opinion pieces by introducing the topic, providing logically ordered reasons that are supported by details, and providing a concluding statement.
- Write informative texts to develop a topic with facts, definitions, concrete details, quotations, and other information. Provide a concluding statement.
- Write narratives to introduce a narrator or characters and organize events naturally. Use dialogue, description, pacing, concrete words, and sensory images to develop experiences.

Speaking and Listening

- Summarize a written text read aloud or information presented in diverse media and formats.
- Report on a topic or text, tell a story, or recount an experience in an organized manner using appropriate facts and relevant and descriptive details.

Language

- Expand, combine, and reduce sentences for meaning and style.
- Use correct verb tenses.
- Explain the function of conjunctions, prepositions, and interjections in sentences.

MATHEMATICS

Algebra, Patterns and Functions

- Express numeric relationships using <, >, and =.
- Solve for one unknown in an equation.
- Represent fractions, mixed numbers, and decimals on a number line.

Number Relationships and Computations

- Write and read numbers to 1,000,000,000.
- Identify prime numbers, write decimals to thousandths, and calculate percentages.
- Apply ratio and proportion concepts.

Geometry

- Describe characteristics of shapes (including congruency, similarity, and symmetry).
- Identify supplementary angles.
- Identify equilateral, isosceles, and scalene triangles.

Measurement

- Calculate perimeter, area, and volume.
- Measure and construct angles with a protractor.

Data Analysis and Probability

- Collect and interpret data in double bar graphs, line graphs, and stem and leaf plots.
- Interpret and conduct surveys; determine a sample for a population.

Mathematical Practices

- Make sense of and persevere in solving problems.
- Reason abstractly and quantitatively.
- Construct viable arguments and critique the reasoning of others.
- Model with mathematics, use appropriate tools strategically, and attend to precision.
- Look for and make use of structure as well as express regularity in repeated reasoning.



A Sample of What Your Child Will Learn

SCIENCE

Construct Knowledge

- Identify and describe the variety of objects in the universe through first-hand observations.
- Identify and compare properties, location, and movement of celestial objects in our solar system.
- Recognize and describe that the amount of water on Earth continues to stay the same even though it may change from one form to another.
- Explain concepts related to animal and plant survival.
- Explain that the changes in the motion of objects are determined by the mass of an object and the amount (size) of the force applied to it.
- Investigate and provide evidence that electricity requires a closed loop in order to produce measurable effects.
- Recognize and describe how light interacts with different materials.

Apply Evidence and Reasoning

- Provide evidence from observations and investigations to support the idea that some organisms consist of a single cell.
- Investigate and provide evidence that living things are made mostly of cells that can be seen and studied only through a microscope.
- Cite evidence that energy in various forms exists in mechanical systems.
- Provide evidence that heat can be transferred in different ways.

Understand and Use Technology

 Gather and question data from many different forms of scientific investigations which include reviewing appropriate print resources, observing what things are like or what is happening somewhere, collecting specimens for analysis, and doing experiments.

SOCIAL STUDIES

History

- Analyze the chronology and significance of key historical events during the age of European exploration.
- Analyze the chronology and the significance of key historical events leading to early settlements in Colonial America.

Geography

- Use geographic tools to locate places and describe human an physical characteristics in Colonial America.
- Describe and analyze population growth, migration, and settlement patterns in Colonial America.
- Explain why and how people adapt to and modify the natural environment and the impact of those modifications.

Economics

- Explain that people made choices because resources were limited relative to economic wants for goods and services in Colonial America.
- Analyze how technological changes affected production and consumption in Colonial America.
- Analyze the consequences of specialized work on interdependence, trade, and economic growth.
- Describe the role of British government on the colonial economy.

Political Science

- Examine the early foundations, functions, and purposes of government.
- Analyze the historic events, documents, and practices that are the foundations of our political systems.
- Evaluate how the United States government protects the rights of individuals and groups.



A Sample of What Your Child Will Learn

UNIFIED ARTS

Art

- Create criteria, including the art elements and principles of design taught in Grade 5, to interpret and critique themes in artworks.
- Analyze and interpret artistic styles and forms of expression in the visual arts.
- Create thematic artwork that explores the art elements and principles of design taught in Grade 5.

Media

- Demonstrate an understanding of literature by forming connections between pieces of literature, self, and/or the world.
- Use the online catalogue independently and safely to select appropriate resources.
- Evaluate and select resources in order to meet an information need while using appropriate strategies to locate, gather, organize, and present relevant information in an ethical manner.

Music

- Respond to sounds through listening, performing, reading, formal symbols, form, and movement.
- Explore the relationship of music to dance, theater, the visual arts, and other disciplines.
- Participate in activities representing various cultures, holidays, and historical events, and explores the roles of music in the lives of people.
- Create and perform music through improvisation, and composition.
- Evaluate musical compositions using established criteria, including music vocabulary.

Physical Education

- Demonstrate mature skills within a modified game.
- Identify the Fitness, Intensity, Time, Type (FITT) guidelines for a lifetime of health.
- Dribble, pass, and receive a ball while moving.
- Create and demonstrate an original movement sequence with a partner or small group.
- Use a peer/self-assessment to create feedback

A Message from the Superintendent:

As the highest grade of elementary school, fifth grade is extremely important. Continue to model, support, and discuss reading and writing in the home. After going to the movies, discuss the theme and characters of the story. In mathematics, look for assignments to build on one another in a progression that requires your child to use skills from earlier grades. Also, look for math assignments that are based on real-world events and situations. As a follow-up at home, ask your child to do the math that pops up in daily living. Provide time every day for your child to do his/her homework and discuss observations and concerns related to what they are learning. Prod your child to consistently share his/her reasoning with you so that you can understand your child's thinking.

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www.hcps.org



