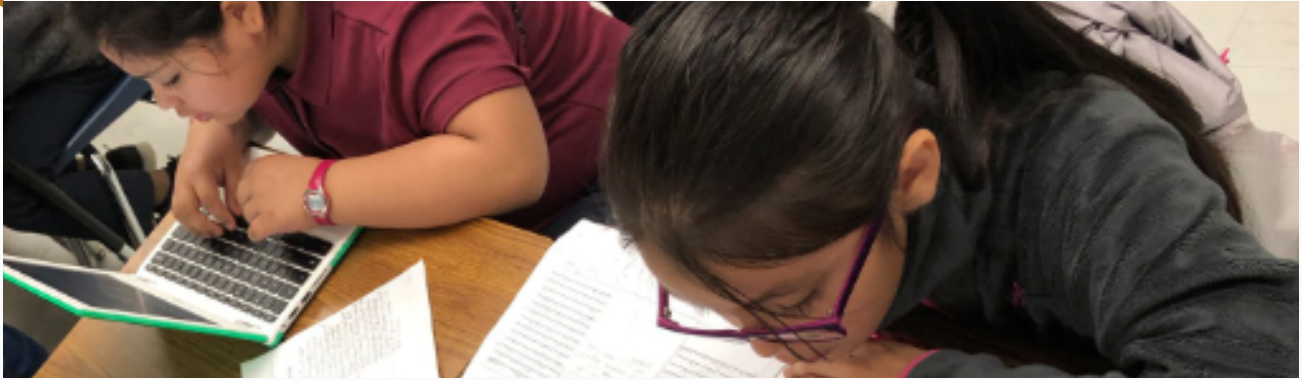


# 5

## School Readiness What Students Should Know and Be Able to Do at the End of the 5th Grade



### Reading/English Language Arts

#### *Based on the Maryland College and Career-Ready Standards*

Determine the theme of a story, play, or poem, including how characters respond to challenges

Compare and contrast stories that deal with similar themes or topics

Explain how authors use reasons and evidence to support their points or ideas

Draw on information from multiple books, articles, or online sources to locate an answer or to solve a problem quickly

Learn and use new words, including words related to specific subjects (such as science words)

Understand figurative language

Participate in class discussions by listening, asking questions, sharing ideas, and building on the ideas of others

Develop a class presentation on a topic or telling a story, introducing relevant facts and details in a clear, logical order

Write research and opinion papers over extended periods of time

### Mathematics

Fluently multiply multi-digit whole numbers using the standard algorithm

Add, subtract, multiply, and divide decimals using place value strategies

Solve real world problems with whole numbers and decimal operations

Read, write, and round decimals to the nearest hundredth

Add and subtract fractions with unlike denominators

Interpret a fraction as division of the numerator by the denominator

# 5

## School Readiness

### What Students Should Know and Be Able to Do at the End of the 5th Grade



Evaluate numerical expressions with parentheses, brackets, or braces and writing and interpreting simple expressions with (+, -, x, ÷)

Generate numerical patterns with two rules, describe and extend the pattern to formulate rules

Apply knowledge of multiplication to multiply fractions and find the area of a rectangle with fractional side lengths

Solve real world problems involving volume

## Science

### *Next Generation Science Standards (NGSS)*

Students should be able to use the 3-Dimensions of the NGSS (Science and Engineering Practices, Disciplinary Core Ideas, and Cross-Cutting Concepts) to unpack and explain relevant grade-level phenomena

Compare the Sun's brightness to other stars' in regards to distance from Earth

Reveal patterns of shadows and seasonal appearances of stars in the night sky

Develop a model to describe ways the geosphere, biosphere, hydrosphere, and atmosphere interact

Graph the amounts and percentages of water and fresh water distributed on Earth

Measure and graph quantities to provide evidence that the total weight of matter is conserved

Develop a model to describe the movement of matter

Use models to describe where the energy in animals' food originates

Reveal patterns of shadows and seasonal appearances of stars in the night sky

Plan and carry out fair tests with controlled variable to improve a model

# 5

## School Readiness What Students Should Know and Be Able to Do at the End of the 5th Grade



### Social Studies

Examine primary and secondary sources to write about how people contributed to building the United States during the colonial period

Identify about the benefits of living in a diverse community and explore the commonalities and differences of these communities and cultures around the world using nonfiction text and through participating in discussions

Identify, locate, and compare places in the United States using geographic characteristics to write how these factors affect the way people live and work

Investigate economic concepts about the production and consumption of goods and services using nonfiction text and through participating in discussions