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School Readiness What Students Should Know and Be Able to Do at the End of the 6th Grade



<p>Reading/English Language Arts</p> <p><i>Based on the Maryland College and Career-Ready Standards</i></p>
Determine a theme or central idea of a reading and how it is conveyed through details and provide an objective summary of the work
Compare and contrast the experience of reading a story, drama, or poem to listening to or viewing an audio, video, or live version of the work, including contrasting the experience of reading with the experience of viewing it
Determine an author’s point of view or purpose in a reading and explain how it is conveyed
Trace and evaluate the argument and claims in a text, distinguishing claims that are supported by reasons and evidence from claims that are not
Come to discussions prepared, having read or studied required material and draw on that preparation by referring to evidence on the topic
Interpret information presented in diverse media and formats (e.g., visually, quantitatively, orally) and explain how it contributes to a topic, text, or issue under study
Write arguments to support claims with reasons and evidence
Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information
Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and well-structured event sequences
Demonstrate command of the conventions of standard English grammar and usage in writing and speech

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Mathematics

Understand ratios, rates, and solve problems involving proportional relationships

Divide fractions and solve related word problems

Use positive and negative numbers to describe quantities and understand the order and absolute values of positive and negative numbers

Work with variables and expressions by generalizing the way numbers work

Understand the process of solving simple equations

Write equations to solve word problems and describe relationships between quantities

Reason about relationships between shapes to determine area, surface area, and volume

Develop an understanding of statistics

Display numerical data in multiple ways (plots, histograms, etc.)

Science

Next Generation Science Standards (NGSS)

Develop a model that predicts and describes changes in a substance when thermal energy is added or removed

Gather and make sense of information to describe how synthetic materials come from natural resources and impact society

Construct, use, and present arguments to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object

Ask questions about data to determine the factors that affect the strength of electric and magnetic forces

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Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials

Develop a model to describe the cycling of water and Earth’s materials

Analyze and interpret data on fossils, rocks, continental shapes, and seafloor structures to provide evidence of Earth’s past

Develop a model to describe the cycling of water and Earth’s materials through Earth’s systems

Write an explanation that predicts patterns of interactions among organisms in ecosystems

Make an argument with evidence explaining that changes to both living and nonliving parts of an ecosystem can affect populations

Social Studies

Examine primary and secondary sources to write about ancient civilizations and contemporary world cultural geography of the western hemisphere

Identify, locate, and compare places in the Western Hemisphere using geographic characteristics to write about how these factors affect how people live and work

Analyze the growth and the development of nations in the contemporary world by looking at the expansion and changes in nations and empires within the Western Hemisphere

Learn about the world outside of the United States and use a variety of sources and perspectives to analyze the characteristics and structure of political and economic systems within the Western Hemisphere

Raise questions, solve problems, reason, and reflect in their understanding of their own learning styles

Demonstrate learning through portfolios, exhibitions, simulations, debate, and service-learning projects, that correlate to social studies content standards for evaluation