Georgia Department of Education

Educating Georgia's Future

6th GRADE SCIENCE



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Welcome to Sixth Grade! Our goal is to help you understand the ways your child will engage in science this year. This letter will help you better understand the science expectations for 6th Grade and the supporting resources to provide ideas of how to work with your child at home throughout the school year. For additional support and questions, please contact your child's science teacher.

In 6th grade science, there are six content standards. These standards are designed to engage your child in student-centered instruction to make sense of phenomena and design solutions to problems focused on common Earth science concepts and principles. Your child will explore and explain how Earth's features formed and changed over time, how water impacts Earth's features, how the sun impacts weather events, and Earth's place within the solar system. Your child will develop an understanding of how science practices, concepts, and principles can be used to make sense of phenomena and solve problems.

6th GRADE SCIENCE CONCEPTS

EARTH SCIENCE
Ask questions, analyze data, and develop models to examine the universe, solar system, and the components of each.
Analyze data, develop models, and construct explanations about the relationships in the positioning of the Earth, moon, and sun.
Ask questions, plan investigations, and analyze data to describe water, energy, movement, oceans, and the effects on Earth's surfaces.
Plan investigations, analyze data, develop models, and construct explanations about Earth's atmosphere, heat transfer to Earth's surfaces, wind systems, weather, and weather events.
Ask questions, plan investigations, develop models, and construct explanations or arguments to describe how Earth's surface has changed though geologic processes, weathering, deposition, erosion, geologic events, soil layers, and what fossils can tell us about the past.
Ask questions, construct arguments, design and evaluate solutions about the use and conservation of natural resources.

How will your child be engaged in learning science?

Science and Engineering Practices
Students will engage in making sense of phenomena and solving problems by asking questions and defining problems, analyzing and interpreting data, developing and using models, constructing explanations, planning and carrying out investigations, engaging in argument from evidence, and obtaining, evaluating, and communicating information.
Crosscutting Concepts
Students will explore patterns, cause and effect, and systems and system models while examining Earth and space science ideas. Students will explore energy and matter, stability and change, and structure and function within Earth's systems.
Phenomena
Phenomena are the real-world observable events to which students can apply the science ideas, concepts, and practices. Some examples of phenomena include a solar eclipse looks different depending on where you live, fossils of marine life can be found in mountain ranges far from the ocean, and hurricanes rarely occur in the winter or spring.

Getting to know your child's teacher is important, and communication with the teacher throughout the year will support your child's individual growth while learning science. The resource links below are provided to help support learning at home as you engage your child in meaningful work while learning science. If at any time you have additional questions or need to request additional support, please reach out to your child's science teacher.

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Georgia Standards