

# FIFTH GRADE SCIENCE

Welcome to Fifth Grade! Our goal is to help you understand the ways your child will engage in science this year. This letter will cover the science expectations for Fifth Grade and the accompanying resources to provide ideas for supporting your child at home. For additional assistance and questions, please contact your child's teacher at their school.

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In Fifth Grade, there are eight science content standards. The standards are designed to engage children in investigations of scientific concepts. Your child will plan and carry out investigations to obtain information. Your child will read, write, speak and listen as they work to construct explanations of science events. Their scientific explanations emphasize evidence gathered and begin to use scientific content, practices, and ideas to support their claims. While participating in these activities, they will learn to follow rules to stay safe.

## FIFTH GRADE SCIENCE CONCEPTS

### LIFE SCIENCE

- Develop a model to show how organisms are grouped.
- Ask questions to compare inherited traits and behaviors of organisms.
- Construct explanations of differences and similarities between plant and animal cells.
- Construct an argument about microorganisms being beneficial or harmful.

### PHYSICAL SCIENCE

- Plan and carry out an investigations of physical and chemical changes.
- Investigate and explain how electricity is conducted and harnessed.
- Construct an argument about the relationship between magnetism and electricity.

### EARTH SCIENCE

- Obtain information about the effects of constructive and destructive processes on surface features.

## How will your child be engaged in learning science?

### Science and Engineering Practices

Students will obtain information by asking questions, planning and carrying out investigations, and using models to gather data. They will utilize information by constructing explanations, developing arguments from evidence, and using models to communicate their ideas. This is important in science because students are doing the same activities that scientists do as part of their work. This will assist students in understanding the process of science and set them up for success in future grades and courses.

### Crosscutting Concepts

Students will study the role of cause and effect and stability and change while exploring surface features of Earth. They will identify energy and matter, systems, structure and function, cause and effect, patterns, and scale, proportion, and quantity while investigating matter, electricity, and magnetism and examining organisms. These ideas will assist students in analyzing different phenomena in science across all science courses as they move to later grades.

### Phenomenon

Students will explore the explanations behind phenomena such as erosion, lightning, junkyard electromagnets, bird nest building, and making bread.

Getting to know your child's teacher is important and communication with them 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 they are learning science. If at any time you have additional questions or need to request additional support, please reach out to your child's teacher.



[GaDOE Inspire](#)



[Georgia Classroom](#)



[Georgia Standards](#)



[Georgia Milestone Resources](#)