

SECOND GRADE SCIENCE

Welcome to Second 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 Second 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.

Image Credit: Jacob Lund, shutterstock.com

In Second Grade, there are six science content standards. The standards are designed for children to make observations and explore phenomena as they raise questions and seek answers to their questions about the world around them. Your child will make observations about the sun, moon, stars, and changes to our environment. They will also push, pull, and manipulate objects to see what happens. Your child will investigate properties of matter. Children will also study the life cycles of different organisms. While participating in these activities, they will learn to follow rules to stay safe.

SECOND GRADE SCIENCE CONCEPTS

EARTH SCIENCE

Make observations about the different sizes and brightness of stars.

Make observations to understand the sun and moon and the sun's effect on Earth.

Make observations to explain the causes of changes to the environment in your community.

PHYSICAL SCIENCE

Explore the properties of matter and changes in objects.

Investigate to explain the effects of forces on the movement of objects.

LIFE SCIENCE

Investigate to explain the life cycles of different living organisms.

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 and mathematics to gather data. They will utilize information by analyzing data, 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 identify patterns, cause and effect, and the structure and function of materials. They will also evaluate scale, proportion, and quantity relationships between objects. Students will study the role of energy and matter, and systems. 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 observable changes due to the motion of objects in the sky, changes to the environment, cooking, rollercoasters, and life cycles.

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.

