



4th Grade Science

Welcome to 4th Grade! This guide will help you understand what your child will learn in science this year and how you can support their learning at home. Fourth grade science explores light, sound, simple machines, ecosystems, Earth's processes, weather, the water cycle, and our place in space. Students will learn through hands-on investigations, data collection, modeling, and explaining what they observe. If you have questions, contact your child's teacher.

This year's focus: Energy, Ecosystems, Weather, and the Solar System

Your child will investigate how light and sound travel, how simple machines help us do work, how organisms respond to changes in ecosystems, and how Earth's surface changes over time. They'll also explore patterns in the sky and understand how water cycles through the environment. Through inquiry and discussion, students will develop critical science skills.

EARTH SCIENCE	LIFE SCIENCE	PHYSICAL SCIENCE
Compare stars and planets by size, brightness, and appearance	Explain how environmental changes affect organisms	Explore how sound is produced and travels through different materials
Model the water cycle and explain its stages	Describe how traits and behaviors help plants and animals survive	Investigate how light reflects, refracts, and is absorbed
Identify patterns in weather using data and maps	Identify producers, consumers, and decomposers	Identify materials that allow or block light and sound
Describe how wind, water, and ice change Earth's surface	Explore how organisms meet their needs in different ecosystems	Describe how balanced and unbalanced forces.

Fourth grade science gives students a broad view of the world and beyond—from understanding storms to exploring the planets and stars, and from investigating sound and light to observing how Earth's surface changes. They will continue using scientific tools, collecting data, and sharing discoveries through words, diagrams, and models.

You can support learning at home by observing the moon and stars, building simple machines, exploring shadows and reflections, growing plants, or tracking the weather together. These everyday experiences help your child connect science to the world around them.