

5th Grade Science Overview

Science education is much more than merely learning content. It is the active process of investigation and the critical review of evidence related to the world around us, both visible and invisible. Science is a dynamic process of gathering and evaluating information, looking for patterns, and then devising and testing possible explanations. Active engagement in scientific investigation leads students to think critically and to develop reasoning skills that allow them to become independent, lifelong learners. Science methods and thought processes have application well beyond the bounds of science and support learning goals in all subject areas.

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Encouraging curiosity and supporting the application of scientific thinking are critical to successful science education for students. When utilizing our science curriculum, it is important to think about how are students are “doing” science and working to develop the intersection between the content of science and the practices of science.

5th Grade Science Curriculum

Science Kit Title	Description
Planetary Science: Earth & Space	Understand the Processes acting on the Earth and their interactions with Earth’s systems. Construct an explanation of the organization of the solar system and how the Earth fit into the organization. Describe the efforts to explore space and how technology can be used to advance these endeavors.
Human Body	Understand the structures and functions of the human body including the skeletal system, muscular system, and the nervous system. Recognize that a body system is a group of organs that work together to perform a specific function to support the body’s overall function.
Levers & Pulleys: Force and Motion (Simple Machines)	Investigate the various effects forces (gravity and friction) can have on an object and its motion. Understand the connections between force and motion as they relate to simple machines.
Mixtures and Solutions: Matter & Energy (FOSS)	Explore the properties of matter including the differences between compounds and mixtures. Investigate physical and chemical changes of matter.
Biomes	Determine the factors that determine the climate in different biomes and identify what biomes are represented in the united states. Compare environmental issues that impact different biomes around the world.