

4th 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.

Arizona Science Standard – Introduction page viii

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 students are “doing” science and working to integrate the content of science and the practices of science.

4th Grade Science Curriculum

Science Kit Title	Description
Water: Water & Weather	Investigate the role that water plays in altering the Earth’s surface through erosion, deposition and weathering.
Animal Studies	Compare and contrast the structures of plants and animals that serve different functions for growth and survival. Classify animals by their identifiable group characteristics.
Magnetism & Electricity	Explore the concept of electricity and how electricity flows through a circuit. Investigate the properties of magnets including attraction, repulsion and distance between magnets.
SRP: Powering our Future – Renewable and Nonrenewable	Compare and contrast the difference between renewable and nonrenewable resources. Describe ways that resources can be conserved and how limited resources can impact humans and the environment.