



Three-dimensional science standards in the elementary grades lay the foundation for students to work and think like scientists and engineers. We also see strong connections to skills students will use to be successful with reading, literacy, and mathematics. In elementary grades, we will explore disciplinary core ideas in physical, life, and Earth and space sciences via phenomena in the world around us. Learners in elementary grades develop and ask testable questions, collect, and analyze different types of evidence, and write and communicate our understanding. Mastery of these standards will result in young learners who have a deep understanding of how scientific knowledge can provide solutions to practical problems we see in our world.

Expectations for 2nd Grade Students:

- **Physical Science:** Matter exists as different substances that have observable properties.
- **Life Science:** Plants depend on water and light to grow and on animals for pollination or to move their seeds around; living things live in a variety of places.
- **Earth Science:** Some events on Earth occur quickly, others can occur slowly; wind and water can change the shape of the land, and models can show the shape and these change.

Throughout 2nd Grade You May Find Students:

- Conducting investigations to describe and classify different kinds of materials by their observable properties.
- Constructing an argument with evidence that some changes caused by heating or cooling can be reversed, and some cannot.
- Planning and conducting an investigation to see if plants need sunlight and water to grow.
- Making observations of plants and animals to compare the diversity of life in different habitats.
- Comparing multiple solutions designed to slow or prevent wind or water from changing the shape of the land.
- Using evidence from several sources to provide evidence that Earth events can occur quickly (ex. volcanic explosions) or slowly (ex. erosion of rocks).