



At an early age, all children have the capacity and the natural desire to observe, explore, and discover the world around them ([NRC, 2012](#)). 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 Kindergarten Students:

- **Physical Science:** Compare the effect of different strengths and directions of push and pull on the speed and motion of an object. Examine how sunlight affects the Earth's surface.
- **Life Science:** Develop an understanding of what plants and animals need to survive, and examine the relationship between their needs and where they live (ex. Deer eat buds and leaves, so they typically live in areas like forests.)
- **Earth Science:** Patterns are observed when measuring the local weather, and these observations can help communities prepare for and respond to severe weather conditions.

Throughout Kindergarten You May Find Students:

- Planning investigations to compare the effect strength and direction have on the motion of an object.
- Using tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area.
- Making observations about what animals and plants need to help them live and grow, and also making observations about how animals might change their environments to meet their needs.
- Keeping track of how the weather changes from day to day, and describe the patterns they observe over time.