Colorado Science

Grade K

Adopted 2020

Physical Science PS1

1. **Pushes and pulls can have different strengths and directions, and can change the speed or direction of an object's motion or start or stop it.** PS1.K.1
   a. Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object. PS1.K.1.A
   b. Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull. PS1.K.1.B
2. **Sunlight affects the Earth's surface.** PS1.K.2
   a. Make observations to determine the effect of sunlight on Earth's surface. PS1.K.2.A
   b. Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area. PS1.K.2.B

Life Science LS2

1. **To live and grow, animals obtain food they need from plants or other animals, and plants need water and light.** LS2.K.1
   a. Use observations to describe patterns of what plants and animals (including humans) need to survive. LS2.K.1.A

Earth and Space Science ESS3

1. **Patterns are observed when measuring the local weather, including how humans and other organisms impact their environment.** ESS3.K.1
   a. Use and share observations of local weather conditions to describe patterns over time. ESS3.K.1.A
   b. Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs. ESS3.K.1.B
2. **Plants and animals meet their needs in their habitats and impact one another; people can prepare for severe weather.** ESS3.K.2
   a. Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live. ESS3.K.2.A
   b. Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather. ESS3.K.2.B
   c. Communicate solutions that will reduce the impact of humans on the land, water, air and/or other living things in the local environment. ESS3.K.2.C