

# Grade K

Adopted 2022

## Physical Science DOMAIN

### Forces and Interactions: Pushes and Pulls

1. 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. [S.K.1](#)
  2. 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. [S.K.2](#)
- 

## Life Science DOMAIN

### Interdependent Relationships in Ecosystems: Animals, Plants, and Their Environment

3. Use observations to describe patterns of what plants and animals (including humans) need to survive. [S.K.3](#)
  4. Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs. [S.K.4](#)
  5. Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live. [S.K.5](#)
  6. Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment. [S.K.6](#)
- 

## Earth and Space Science DOMAIN

### Weather and Climate

7. Use and share observations of local weather conditions to describe patterns over time. [S.K.7](#)
  8. Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather. [S.K.8](#)
  9. Make observations to determine the effect of sunlight on Earth's surface. [S.K.9](#)
  10. Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area. [S.K.10](#)
-

**Engineering,  
Technology, and  
Applications of  
Science** DOMAIN

**Engineering Design**

1. Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. EDS.K.1
2. Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. EDS.K.2
3. Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs. EDS.K.3