

## Earth and Space Science

### **S1E1. Obtain, evaluate, and communicate weather data to identify weather patterns.** S1E1

- a. Represent data in tables and/or graphs to identify and describe different types of weather and the characteristics of each type. S1E1.A
- b. Ask questions to identify forms of precipitation such as rain, snow, sleet, and hailstones as either solid (ice) or liquid (water). S1E1.B
- c. Plan and carry out investigations on current weather conditions by observing, measuring with simple weather instruments (thermometer, wind vane, rain gauge), and recording weather data (temperature, precipitation, sky conditions, and weather events) in a periodic journal, on a calendar, and graphically. S1E1.C
- d. Analyze data to identify seasonal patterns of change. S1E1.D

## Physical Science

### **S1P1. Obtain, evaluate, and communicate information to investigate light and sound.** S1P1

- a. Use observations to construct an explanation of how light is required to make objects visible. S1P1.A
- b. Ask questions to identify and compare sources of light. S1P1.B
- c. Plan and carry out an investigation of shadows by placing objects at various points from a source of light. S1P1.C
- d. Construct an explanation supported by evidence that vibrating materials can make sound and that sound can make materials vibrate. S1P1.D
- e. Design a signal that can serve as an emergency alert using light and/or sound to communicate over a distance. S1P1.E

### **S1P2. Obtain, evaluate, and communicate information to demonstrate the effects of magnets on other magnets and other objects.** S1P2

- a. Construct an explanation of how magnets are used in everyday life. S1P2.A
- b. Plan and carry out an investigation to demonstrate how magnets attract and repel each other and the effect of magnets on common objects. S1P2.B

## Life Science

### **S1L1. Obtain, evaluate, and communicate information about the basic needs of plants and animals.** S1L1

- a. Develop models to identify the parts of a plant—root, stem, leaf, and flower. S1L1.A
- b. Ask questions to compare and contrast the basic needs of plants (air, water, light, and nutrients) and animals (air, water, food, and shelter). S1L1.B
- c. Design a solution to ensure that a plant or animal has all of its needs met. S1L1.C