

# Grade 4

Adopted 2015

## Physical Science

**4-PS3-1.** Use evidence to construct an explanation relating the speed of an object to the energy of that object. 4-PS3-1

---

**4-PS3-2.** Make observations to provide evidence for how energy can be transferred from place to place by sound, light, heat, and electric currents. 4-PS3-2

---

**4-PS3-3.** Ask questions and predict outcomes about the changes in energy that occur when objects collide. 4-PS3-3

---

**4-PS3-4.** Design, test, and refine a device that converts energy from one form to another. 4-PS3-4

---

**4-PS4-1.** Develop a model of waves to describe patterns in terms of amplitude and wavelength and to provide evidence that waves can cause objects to move. 4-PS4-1

---

**4-PS4-2.** Develop a model to describe how light reflecting from objects and entering the eye allows objects to be seen. 4-PS4-2

---

**4-PS4-3.** Create and compare multiple solutions that use patterns to transfer information. 4-PS4-3

---

## Life Science

**4-LS1-1.** Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction. 4-LS1-1

---

**4-LS1-2.** Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways. 4-LS1-2

---

## Earth and Space Science

**4-ESS1-1.** Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time. 4-ESS1-1

---

**4-ESS2-1.** Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation. 4-ESS2-1

---

**4-ESS2-2. Analyze and interpret data from maps to describe patterns of Earth's features.** 4-ESS2-2

---

**4-ESS3-1. Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.** 4-ESS3-1

---

**4-ESS3-2. Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.** 4-ESS3-2