

## SC Science Standards for 4th Grade

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

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

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

**4-PS3-4.** Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.

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

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

**4-PS4-3.** Generate and compare multiple solutions that use patterns to transmit information.

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

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

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

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