

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