Oklahoma Science

Grade 4

Adopted 2020

Energy	1. **Use evidence to construct an explanation relating the speed of an object to the energy of that object.** 4.PS3.1
	2. **Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.** 4.PS3.2
	3. **Ask questions and predict outcomes about the changes in energy that occur when objects collide.** 4.PS3.3
	4. **Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.** 4.PS3.4
Waves and Their Applications in Technologies for Information Transfer	1. **Develop and use a model of waves to describe patterns in terms of amplitude and wavelength, and to show that waves can cause objects to move.** 4.PS4.1
	2. **Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.** 4.PS4.2
	3. **Generate and compare multiple solutions that use patterns to transfer information.** 4.PS4.3
From Molecules to Organisms: Structure and Processes	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
	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's Place in the Universe	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
Earth's Systems	1. **Plan and conduct investigations on the effects of water, ice, wind, and vegetation on the relative rate of weathering and erosion.** 4.ESS2.1
	2. **Analyze and interpret data from maps to describe patterns of Earth's features.** 4.ESS2.2

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Earth and Human Activity	1. **Obtain and combine information to describe that energy and fuels are derived from renewable and non-renewable resources and how their uses affect the environment.** `4.ESS3.1`
	2. **Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.** `4.ESS3.2`