Louisiana Science

Grade 4

Adopted 2017

Energy	**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 that 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.	**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	**4-PS4-1.**	**Develop 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
	4-PS4-2.	**Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.** 4-PS4-2
From Molecules to Organisms: Structures and Processes	**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.	**Construct an explanation to describe how animals receive different types of information through their senses, process the information in their brains, and respond to the information in different ways.** 4-LS1-2
Earth's Systems	**4-ESS2-1.**	**Plan and conduct investigations on the effects of water, ice, wind, and vegetation on the relative rate of weathering and erosion.** 4-ESS2-1
	4-ESS2-2.	**Analyze and interpret data from maps to describe patterns of Earth's features.** 4-ESS2-2
	4-ESS2-3.	**Ask questions that can be investigated and predict reasonable outcomes about how living things affect the physical characteristics of their environment.** 4-ESS2-3
Ea Ac	Skip to main content **SS3-1.**	**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
	4-ESS3-2.	**Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.** 4-ESS3-2
Earth's Place in the Universe	**4-ESS1-1.**	**Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in landforms over time.** 4-ESS1-1