

Grade 4 Science Checklist

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Related Schoolwide Learner Outcomes

Life Science: From Molecules to Organisms - Structures and Processes		
 4-LS1-1: I can explain how the internal and external structures of plants help them survive, grow, act in certain ways, and reproduce. I can explain how the internal and external structures of animals help them survive, grow, act in certain ways, and reproduce. 4-LS1-2: I can use a model to tell you about the ways that animals receive different types of information through their senses. I can use a model to show that animals use their 		
brain to process information. I can use a model to show that animals respond to information in different ways.		
Earth and Space Science: Earth's Place in the Universe		
4-ESS1-1: I can talk about changes in the Earth's landscape over time using evidence found in rock formations and fossils in rock layers.		
Earth and Space Science: Earth's Systems		
4-ESS2-1: I can discuss the ways that water, ice, wind, or plant life can change the Earth's surface. I can make observations and measurements that show weather and/or erosion are taking place.		
☐ 4-ESS2-2: I can use information found on maps to discover patterns on Earth's surface.		
Earth and Space Science: Earth and Human Activity		
4-ESS3-1: I can describe how energy and fuel are created by natural resources. I can give examples of how using energy and fuel can affect the environment.		
4-ESS3-2: I can come up with solutions to problems that some natural Earth processes, like earthquakes, volcanoes, or floods, can cause for humans.		
Physical Science: Energy		
 4-PS3-1: I can explain how the speed of an object is related to the energy of that object. 4-PS3-2: I can explain how energy can be transferred by sound, light, heat, and electricity. 		

		4-PS3-3: I can ask and answer questions about the energy transfers that occur when two objects crash.
		4-PS3-4: I can use what I know about energy to create devices that convert energy from one form to another.
Ph	ysic	cal Science: Waves and their Applications in Technologies for Information Transfer
		4-PS4-1: I can create a model of waves to show patterns in amplitude and wavelength. I can create a model of waves to show that waves can cause objects to move.
		4-PS4-2: I can create a model to show that light reflecting from an object and entering the eye allows the object to be seen.
		4-PS4-3: I can compare different ways that patterns are used to transfer information.
En	gine	eering Design
		3-5-ETS1-1: I can find a design that needs to be fixed. I can define what a successful design would involve. I can plan the amount of materials, time, or money that it would take to complete the fix.
		3-5-ETS1-2: I can evaluate possible solutions to a problem when presented with more than one solution. I can discuss which solution would work best and tell you why.
		3-5-ETS1-3: I can test a model or prototype so that I can figure out what improvements are needed.