Indiana Science: Grades K-8

Grade 1

Waves and Their Applications in Technologies for Information Transfer	1	Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. 1-PS4-1
	2	Make observations to construct an evidence-based account that objects in darkness can be seen only when illuminated. 1-PS4-2
	3	Plan and conduct investigations to determine the effect of placing objects made with different materials in the path of a beam of light. 1-PS4-3
	4	Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. 1-PS4-4
From Molecules to Organisms: Structures and Processes	1	Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs. 1-LS1-1
	2	Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. 1-LS1-2
Heredity: Inheritance and Variation of Traits	1	Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents. 1-LS3-1
Earth's Place in the Universe	1	Use observations of the sun, moon, and stars to describe patterns that can be predicted. 1-ESS1-1
	2	Make observations at different times of year to relate the amount of daylight to the time of year 1-ESS1-2
Engineering Design	1	Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. K-2-ETS1-1
	2	Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. K-2-ETS1-2
	3	Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs. K-2-ETS1-3