Indiana Science: Grades K-8

Grade 3

Motion and Stability: Forces and Interactions	1	Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object. 3-PS2-1
	2	Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion. 3-PS2-2
	3	Ask questions to determine cause and effect relationships of electric or magnetic interactions between two objects not in contact with each other. 3-PS2-3
	4	Define a simple design problem that can be solved by applying scientific ideas about magnets. 3-PS2-4
From Molecules to Organisms: Structures and Processes	1	Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death. 3-LS1-1
Ecosystems: Interactions, Energy, and Dynamics	1	Construct an argument that some animals form groups that help members survive. 3-LS2-1
Heredity: Inheritance and Variation of Traits	1	Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms 3-LS3-1
	2	Use evidence to support the explanation that traits can be influenced by the environment. 3-LS3-2
Biological Evolution: Unity and Diversity	1	Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago 3-LS4-1
	2	Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing. 3-LS4-2
	3	Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all. 3-LS4-3

Skip to main content

	4	**Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.** 3-LS4-4
Earth's Systems	1	**Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season.** 3-ESS2-1
	2	**Obtain and combine information to describe climates in different regions of the world.** 3-ESS2-2
Earth and Human Activity	1	**Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.** 3-ESS3-1
Engineering Design	1	**Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.** 3-5-ETS1-1
	2	**Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem.** 3-5-ETS1-2
	3	**Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.** 3-5-ETS1-3