Maryland Science - Next Generation

Grade 3

Adopted 2013

Motion and Stability: Forces and Interactions 3-PS2	**3-PS2-1.**	**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
	3-PS2-2.	**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-PS2-3.	**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
	3-PS2-4.	**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 3-LS1	**3-LS1-1.**	**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 3-LS2	**3-LS2-1.**	**Construct an argument that some animals form groups that help members survive.** 3-LS2-1
Heredity: Inheritance and Variation of Traits 3-LS3	**3-LS3-1.**	**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
	3-LS3-2.	**Use evidence to support the explanation that traits can be influenced by the environment.** 3-LS3-2
Biological Evolution: Unity and Diversity 3-LS4	**3-LS4-1.**	**Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago.** 3-LS4-1
	3-LS4-2.	**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-LS4-3.	**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

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	3-LS4-4. 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 3-ESS2	**3-ESS2-1.** Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season. 3-ESS2-1
	3-ESS2-2. Obtain and combine information to describe climates in different regions of the world. 3-ESS2-2
Earth and Human Activity 3-ESS3	**3-ESS3-1.** Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard. 3-ESS3-1
Engineering Design 3-5-ETS1	**3-5-ETS1-1.** 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
	3-5-ETS1-2. 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
	3-5-ETS1-3. 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