North Dakota Science

Grade 3

Adopted 2019

Motion and Stability: Forces and Interactions	**3-PS2-1.**	**Plan and conduct an investigation to prove the effects of balanced and unbalanced forces on the motion of an object.** 3-PS2-1
	3-PS2-2.	**Make observations and metric measurements of an object's motion to prove 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 static electricity 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-LS1-1.**	**Develop models to describe that organisms have unique and diverse life cycles but all experience birth, growth, reproduction, and death.** 3-LS1-1
Earth's Systems	**3-ESS2-1.**	**Represent data in tables and graphical displays to describe and predict 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-ESS3-1.**	**Evaluate the feasibility of a design solution that reduces the impacts of a weather-related hazard.** 3-ESS3-1
Engineering & Technology	**3-ET1-1.**	**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-ET1-1
	3-ET1-2.	**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-ET1-2
	3-ET1-3.	**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-ET1-3

Heredity: Inheritance and Variation of Traits	**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 the environment can influence the expression of traits.** 3-LS3-2
Ecosystems: Interactions, Energy, and Dynamics	**3-LS2-1.**	**Construct an argument that some animals form groups that help members survive.** 3-LS2-1
Biological Evolution: Unity and Diversity	**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