West Virginia Science

Grade K

Adopted 2022

Physical Science DOMAIN

Forces and Interactions: Pushes and Pulls

1. Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object. S.K.1
2. Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull. S.K.2

Life Science DOMAIN

Interdependent Relationships in Ecosystems: Animals, Plants, and Their Environment

3. Use observations to describe patterns of what plants and animals (including humans) need to survive. S.K.3
4. Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs. S.K.4
5. Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live. S.K.5
6. Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment. S.K.6

Earth and Space Science DOMAIN

Weather and Climate

7. Use and share observations of local weather conditions to describe patterns over time. S.K.7
8. Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather. S.K.8
9. Make observations to determine the effect of sunlight on Earth's surface. S.K.9
10. Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area. S.K.10

Engineering, Technology, and Applications of Science DOMAIN

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. EDS.K.1

   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. EDS.K.2

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3. Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs. EDS.K.3