South Dakota Science

Kindergarten

Physical Science PS

2 Motion and Stability: Forces and Interactions PS2

1. Plan and carry out an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object. (SEP: 3; DCI: PS2.A, PS2.B, PS3.C; CCC: Cause/Effect) K-PS2-1
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. (SEP: 4; DCI: PS2.A, ETS1.A; CCC: Cause/Effect) Alignment may include K-2-ETS1-1 K-PS2-2

3 Energy PS3

1. Make observations to determine the effect of sunlight on Earth's surface. (SEP: 3; DCI: PS3.B; CCC: Cause/Effect) K-PS3-1
2. Design and build a structure that will reduce the warming effect of sunlight on an area. (SEP: 6; DCI: PS3.B, ETS1.B; CCC: Cause/Effect) Alignment may include K-2-ETS1-2 K-PS3-2

Life Science LS

1 From Molecules to Organisms: Structures and Processes LS1

1. Describe patterns of what plants and animals (including humans) need to survive. (SEP: 4; DCI: LS1.C; CCC: Patterns) K-LS1-1

Earth and Space Science ESS

2 Earth's Systems ESS2

1. Plan and carry out observations of local weather conditions to describe patterns over time. (SEP: 4; DCI: ESS2.D; CCC: Patterns) K-ESS2-1
2. Engage in argument from evidence for how plants and animals (including humans) can change the environment to meet their needs. (SEP: 7; DCI: ESS2.E, ESS3.C; CCC: Systems) K-ESS2-2

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3 Earth and Human Activity ESS3

1. Use a model to represent the characteristics of and the relationship between various plants and animals in the places they live. (SEP: 2; DCI: ESS3.A; CCC: Systems) K-ESS3-1
2. Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather. (SEP: 1, 8; DCI: ESS3.B, ETS1.A; CCC: Cause/Effect) Alignment may include K-2-ETS1-1 K-ESS3-2
3. Communicate solutions that will reduce the impact of humans on the land, water, air, and living things in the local environment. (SEP: 8; DCI: ESS3.C, ETS1.B; CCC: Cause/Effect) Alignment may include K-2-ETS1-2 K-ESS3-3

Engineering, Technology, and Applications of Science ETS

1 Engineering Design ETS1

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. Alignment may include K-PS2-2; K-ESS3-2; 1-LS1-1 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. Alignment may include K-ESS3-3; 1-PS4-4; 2-LS2-2 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. Alignment may include 2-PS1-2; 2-ESS2-1 K-2-ETS1-3