South Dakota Science

2nd Grade Science

Physical Science PS

1 Matter and Its Interactions PS1

1 Plan and carry out an investigation to describe and classify different kinds of materials by their observable properties. (SEP: 3; DCI: PS1.A; CCC: Patterns) 2-PS1-1

2 Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose. (SEP: 4; DCI: PS1.A, ETS1.C; CCC: Cause/Effect) Alignment may include K-2-ETS1-3 2-PS1-2

3 Construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object. (SEP: 6; DCI: PS1.A; CCC: Energy/Matter) 2-PS1-3

4 Construct an evidenced-based argument using reasoning and evidence that some changes caused by heating or cooling can be reversed and some cannot. (SEP: 7; DCI: PS1.B; CCC: Cause/Effect) 2-PS1-4

Life Science LS

2 Ecosystems: Interactions, Energy, and Dynamics LS2

1 Plan and carry out an investigation to determine if plants need sunlight and water to grow. (SEP: 3; DCI: LS2.A; CCC: Cause/Effect) 2-LS2-1

2 Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants. (SEP: 2; DCI: LS2.A, ETS1.B; CCC: Structure/Function) Alignment may include K-2ETS1-2 2-LS2-2

4 Biological Unity and Diversity LS4

1 Make observations of plants and animals to compare the diversity of life in different habitats. (SEP: 3; DCI: LS4.D; CCC: Systems) 2-LS4-1

Earth and Space Science ESS

1 Earth's Place in the Universe ESS1

1 Use information from several sources to construct an explanation that Earth events like volcanic eruptions, earthquakes, weather, and erosion can occur quickly or slowly. (SEP: 6; DCI: ESS1.C; CCC: Stability/Change) 2-ESS1-1

2 Earth's Systems ESS2

1 Compare multiple solutions to develop a model designed to slow or prevent wind or water from changing the shape of the land. (SEP: 6; DCI: ESS2.A, ETS1.C; CCC: Stability/Change) Alignment may include K-2-ETS1-3 2-ESS2-1

Obtain and evaluate information about the shapes and kinds of land and bodies of water in your local areas. (SEP: 8; DCI: ESS2.B; CCC: Stability/Change) 2-ESS2-2

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3 Obtain information to identify where water is found on Earth and that it can be solid, liquid, or gas. (SEP: 8; DCI: ESS2.C; CCC: Patterns) 2-ESS2-3

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