

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](#)
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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](#)
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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](#)
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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](#)

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