Iowa Science

Kindergarten

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. K-PS2-1	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. K-PS2-1
Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or pull. K-PS2-2	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 pull. K-PS2-2
Make observations to determine the effect of sunlight on Earth's surface. K-PS3-1	3 Make observations to determine the effect of sunlight on Earth's surface. K-PS3-1
Use tools and materials provided to design and build a structure that will reduce the warming effect of sunlight on an area. K-PS3-2	4 Use tools and materials provided to design and build a structure that will reduce the warming effect of sunlight on an area. K-PS3-2
Use observations to describe patterns of what plants and animals (including humans) need to survive. K-LS1-1	5 Use observations to describe patterns of what plants and animals (including humans) need to survive. K-LS1-1
Use and share observations of local weather conditions to describe patterns over time. K-ESS2-1	6 Use and share observations of local weather conditions to describe patterns over time. K-ESS2-1

Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs. K-ESS2-2	**7** **Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs.** K-ESS2-2
Use a model to represent the relationship between the needs of different plants and animals (including humans) and the places they live. K-ESS3-1	**8** **Use a model to represent the relationship between the needs of different plants and animals (including humans) and the places they live.** K-ESS3-1
Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather. K-ESS3-2	**9** **Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather.** K-ESS3-2
Communicate solutions that will improve sustainability of the land, water, air, and/or other living things in the local environment. K-ESS3-3	**10** **Communicate solutions that will improve sustainability of the land, water, air, and/or other living things in the local environment.** K-ESS3-3
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. K-ETS1-1	**11** **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.** K-ETS1-1
Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object	**12** **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.** K-ETS1-2

helps it function as needed to solve a given problem. K-ETS1-2

Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs. K-ETS1-3

13 **Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.** K-ETS1-3