Washington Science

Kindergarten

Physical Science

What happens if you push or pull an object in different ways?

2 Use evidence, data, and investigation to show and compare how pushes and pulls affect the motion of objects; apply learned understandings to design and test ways to intentionally control the motion of objects. WA.K.PS2

- 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
- 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. [Engineering] K-PS2-2

How does sunlight affect the temperature of things on the Earth? How can we change that?

3 Use evidence and investigation to show how sunlight affects temperature of surfaces; use learned understandings to design and build a structure that can decrease the temperature of a surface heated by the sun. WA.K.PS3

- 1 Make observations to determine the effect of sunlight on Earth's surface. K-PS3-1
- 2 Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area. [Climate] [Engineering] [ESE] K-PS3-2

Life Science

What do plants and animals need to survive and how do they get it?

1 Use evidence and modeling to show and explain what living things need to survive and how they get it from the places they live. WA K.LS1

- 1 Use observations to describe patterns of what plants and animals (including humans) need to survive. [ESE] K-LS1-1
- 2 Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs. [ESE] K-LS1-2
- 3 Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live. [Climate] [ESE] K-ESS3-1

Earth and Space Sciences

What patterns can we see in our weather and how can we use those patterns to be safe?

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2 Use evidence and data to show and explain patterns in local weather and how humans use those patterns to plan ahead and design for safety. WA K.ESS2

1 Use and share observations of local weather conditions to describe patterns over time. [Climate] K-ESS2-1

2 Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather. [Climate] [Engineering] K-ESS3-2

How can humans help the Earth?

Develop and share ideas about how humans can help and protect the environment where they live. WA K.ESS3

3 Develop and share ideas about how humans can help and protect the environment where they live. WA K.ESS3

Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment. [Climate] [Engineering] [ESE] K-ESS3-3

1 Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment. [Climate] [Engineering] [ESE] K-ESS3-3

K–2 Engineering, Technology, and Applications of Science

How do we engineer solutions to a problem?

1 Use modeling, investigation, and data to design, test, and improve solutions to simple problems that can be solved through engineering. WA K.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. 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. 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. K-2-ETS1-3

Environmental and Sustainability Education

Environmental and Sustainability Education

Through project-based learning, develop an investigation related to the interconnected spheres of nature. so ec with local communities,

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1 Design an investigation to explore phenomena related to the roles of money, society, environmental problems, and sustainability solutions in local and tribal communities. K.ESE.1-1

2 Analyze and evaluate data gathered on school grounds to explain local scientific phenomena resulting from the influence that natural settings and human-built structures have on each other. K.ESE.1-2

including tribes, then communicate about and act upon solutions for local environmental problems. WA.K.ESE.1

3 **Engage in place-based learning to communicate about and act on personal and collective solutions for sustainable communities, with a focus on tribal sovereignty.** K.ESE.1-3