

Unit 1 - The Earth's Land and Water

Content Area: **Science**
Course(s): **Science 2**
Time Period: **October**
Length: **20 Days**
Status: **Published**

Unit Summary

In this unit of study, students use information and models to identify and represent the shapes and kinds of land and bodies of water in an area and where water is found on Earth. The crosscutting concept of patterns is called out as an organizing concept for these disciplinary core ideas. Students demonstrate grade-appropriate proficiency in developing and using models and obtaining, evaluating, and communicating information. Students are also expected to use these practices to demonstrate understanding of the core ideas.

Standards

SCI.2.2-ESS2-3	Obtain information to identify where water is found on Earth and that it can be solid or liquid.
SCI.2.2-ESS2-2	Develop a model to represent the shapes and kinds of land and bodies of water in an area.
SCI.2.2-ESS1-1	Use information from several sources to provide evidence that Earth events can occur quickly or slowly.
SCI.2.2-PS1-2	Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.
SCI.2.2-PS1-1	Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.
SCI.K-2.K-2-ETS1-2	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.
SCI.K-2.K-2-ETS1-3	Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.
SCI.K-2.K-2-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.
SCI.2-ESS2-2	Develop a model to represent the shapes and kinds of land and bodies of water in an area.
TECH.8.1.2.A.CS1	Understand and use technology systems.

Student Learning Objectives

Students will learn to...

- obtain information to identify where water is found on Earth and that it can be solid or liquid.
- develop a model to represent the shapes and kinds of land and bodies of water in an area.

Essential Questions

- How can we identify where water is found on Earth and if it is solid or liquid?
- In what ways can you represent the shapes and kinds of land and bodies of water in an area?

Enduring Understandings

Students will understand...

- the roles of water in Earth's surface processes
- water is found in the ocean, rivers, lakes, and ponds. Water exists as solid ice and in liquid form.
- plate tectonics and large-scale system interactions
- maps show where things are located.
- one can map the shapes and kinds of land and water in any area.
- patterns in the natural world can be observed.
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