

Scaffolding Activities Bloom's Taxonomy

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Project Title: Earth's Systems Project

Date: October 10, 2017

Objectives:

Students will be able to:

- Identify and represent the shapes and kinds of land and bodies of water in an area.
- Identify events that have shaped the Earth's surface.
- Classify changes to the Earth's surface as slow or rapid.
- Create Compare design solutions that slow or prevent the way wind and water change the Earth's surface.

Essential Question(s):

1. How do wind and water change the shape of the land?
2. How are people affected by the different rates of change to Earth's surface (quick versus slow changes)?
3. How can changes to the Earth surface be slowed or prevented?

Unit/Project Question(s):

How does land change and what are some things that cause it to change?

Content Questions:

Is the Earth a solid, liquid or gas?

What are the layers of the Earth?

What different kinds and shapes of land, and bodies of water are found on Earth?

What causes the surface of our Earth to be continuously changing?

Which of Earth's events occur very quickly and slowly to change its shape?

How are people's lives affected by weathering?

What solutions can we design to slow or prevent wind or water from changing the shape of the land?

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Level	Activities	Assessment
Creating	<p>Generate, plan, and construct a device to prevent changes to the shape of the land during STEM Challenge.</p> <p>Use clay to recreate landforms and bodies of water</p>	<p>STEM Journal & Device Rubric</p> <p>Students clay creations</p>
Evaluating	<p>Critique the effectiveness of other groups design challenges</p> <p>Argue and support their idea for argument topics based on knowledge learned (Ex: Should people be allowed to build homes along the coastline?)</p>	<p>Student participation and use of anchor chart to guide their critique. (positives to creation, questions or problems they see)</p> <p>Group planning posters to support ideas, participation during oral argument, written pieces supporting their opinion.</p>
Analyzing	<p>Examine the effects of Weathering and Erosion</p> <p>Erosion Experiment</p>	<p>Weathering and Erosion matching</p> <p>Student Lab Report Organizers</p>
Applying	<p>Classify Earth's events as slow or quick changes</p>	<p>Student mini posters and sort match</p>
Understanding	<p>Four Layers of the Earth Reading</p> <p>Brainpopjr.com, Crash Course Kids etc. videos and PowerPoint presentations</p>	<p>Comprehension Reading Check</p> <p>Brainpopjr video quizzes, Google form "check-in"</p>
Remembering	<p>Recall vocabulary and different properties of landforms and bodies of water</p>	<p>Bodies of Water & Landforms Cut and Paste</p> <p>Google form "check-in"</p>