

## **Questivities – Changing Earth**

### Project Activity

You are a Geologist who knows all about how forces affect the earth’s surface. You have been asked to share your knowledge about natural phenomenon.

Research one of the following:

Water erosion

Glaciers

Wind

Plate tectonics

Volcanoes

Earthquakes

Be sure to learn the causes of the natural phenomenon, the effects it has on Earth’s surface, and at least one clear example of a place that has been strongly affected by this force. Then construct a simulation that you will use during your presentation to demonstrate how the force is created and how it affects Earth’s surface.

### ***Assessment Mini-Rubric for the Project Activity***

1. Includes media that enhances understanding
2. Facts are accurate and cover causes, effects, and specific examples
3. Simulation works and accurately demonstrates the causes and effects of the process

### Directions

Answer the Questivities Thinking Questions and Active Question before doing the Project Activity.

### Questivities Thinking Questions

1. List at least 4 places in the world affected by the force.
2. Compare and contrast pictures of the Rocky Mountains to the much older Appalachian Mountains. What role could your force have played in creating or wearing down a chain of mountains?
3. What would happen if scientists found a way to completely stop your force? Could there be any negative effects?
4. Assuming you could take your family and friends with you, would you rather live on Earth where all these forces are active or on the moon? Why?
5. How would you feel if your family had owned property for many generations that was steadily being changed by the force you are studying?
6. Why does Earth have the force you are studying but the moon does not?
7. How, exactly does the force change Earth’s surface?

## Active Question

Make a list of questions that one force might ask another.

## Project Pacing and Focus

Be prepared to discuss the question. If you need written preparation, type your ideas or write them in your journal.

- 🌍 What force has had the greatest impact on the shape of Earth's surface? Why do you think so?
- 🌍 I plan to study this force and how it affects earth  

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- 🌍 Conduct research and write your report on Seesaw.
- 🌍 Create an educational demonstration or visual aid about your study.
- 🌍 Provide clear detailed information
- 🌍 Do not begin your demonstration before you have completed your writing.
- 🌍 Parts of your presentation.
  - 🌍 Written Report
  - 🌍 Visual Aid
  - 🌍 Oral Presentation – Practice, use good posture, speak clearly, refer to your visual aid at least once or twice
  - 🌍 Be prepared to answer questions
  - 🌍 PRACTICE... PRACTICE... PRACTICE!