

TOPIC & GRADE LEVEL: The Changing Earth

Key Learning(s):

There are many changes to Earth that occurred over time by different geological forces and processes. These forces and processes that are related shape Earth's past, present, and future.

Unit Essential Question(s):

How do constructive and destructive natural processes change Earth over time?

Concept
Volcanoes and Plate Tectonics

Concept
Earthquakes and Plate Tectonics

Concept

Lesson Essential Questions:

How is the formation of the Hawaiian Islands and the Great Rift Valley examples of slow surface changes on Earth?

Lesson Essential Questions:

How do tectonic plates move along faults to create earthquakes?

How do scientists measure the strength of an earthquake?

How can they predict future earthquakes?

How is a tsunami an example of a rapid surface change?

Lesson Essential Questions:

Vocabulary:

island arc hot spots
caldera rifting

Vocabulary:

earthquake aftershock
fault focus
epicenter reverse fault
strike-slip fault normal fault
Richter Scale magnitude
seismograph tsunami

Vocabulary: