

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
Theory of Continental Drift

Lesson Essential Questions:

How did Alfred Wegener's theory explain the future movement of the continents?

What evidence supports the theory of continental drift?

Concept
Theory of Plate Tectonics

Lesson Essential Questions:

What causes the tectonic plates to be in constant motion?

How do the tectonic plates interact?

How do tectonic plates form mountains?

Concept
Volcanoes and Plate Tectonics

Lesson Essential Questions:

How are volcanoes formed?

How are volcanoes classified?

How are volcanoes examples of rapid surface changes?

How can volcanic eruptions be predicted?

What are some long-term effects of volcanic eruptions?

Vocabulary:
continental drift
tectonic plates
Pangaea
plate boundaries

Vocabulary:
lithosphere asthenosphere
convection convection current
convergent divergent
transform-fault
folding mountain
fault-block mountain
dome mountain

Vocabulary: volcano
Ring of Fire magma
lava cinder cone
shield cone composite cone
extinct dormant
intermittent active
tiltmeter seismometer