



Name:

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Date:

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Student Exploration: Plate Tectonics

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: asthenosphere, collision zone, convergent boundary, crust, divergent boundary, earthquake, lithosphere, mantle, plate, plate tectonics, subduction zone, transform boundary, volcano

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. **Volcanoes** are openings in Earth's **crust** where lava, gas, and ash can erupt. Where are active volcanoes located?

Active volcanoes are located where gaps in the Earth's crust allow magma to flow to the surface.

2. An **earthquake** is a violent shaking of Earth's surface. Where are earthquakes common?

Earthquakes are more common near tectonic plates.

Gizmo Warm-up

Volcanoes, earthquakes, mountains, and other features of Earth's surface owe their origin to the movements of **plates**: enormous, slowly-moving sections of Earth's crust. At plate boundaries, plates collide, move apart, move under or over each other, or slide past one another. The theory of **plate tectonics** describes how the plates move, interact, and change the physical landscape.



The *Plate Tectonics* Gizmo shows a cross-section, or side view, of Earth. (Not to scale.) Above the cross section is a bird's-eye view of the same location.

1. Turn on **Show labels**. What are the layers of Earth that you can see?

The layer of Earth that you can see are the Continental crust and the lithosphere and the mantle.

The **lithosphere** is a layer of rigid rock that consists of the crust and the upper part of Earth's **mantle**. The **asthenosphere** is a layer of the mantle that can deform like plastic.

2. Turn on **Boundary name**, and click on each boundary. What four boundaries do you see?

The four boundaries I see are Transform boundaries, Convergent Subduction, Convergent Collision, and Divergent Boundaries.

Answers For Plate Tectonics In Gizmos

Robert R. Redfield



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