

## Student Exploration: Plate Tectonics

**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 in the tectonic plates.
2. An **earthquake** is a violent shaking of Earth's surface. Where are earthquakes common? Earthquakes are common on the tectonic plate edges.

### 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? Mantle, Crust, and Lithosphere.

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? Transform boundary, collisional, subduction, divergent boundary

# Explore Learning Gizmo Answer Key Plate Tectonics

**L Reisser**



**Explore Learning Gizmo Answer Key Plate Tectonics:**

## Unveiling the Magic of Words: A Review of "**Explore Learning Gizmo Answer Key Plate Tectonics**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Explore Learning Gizmo Answer Key Plate Tectonics**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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