

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

JR Anderson



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web the mole was made the seventh si base unit in 1971 by the 14th cgm 2019 redefinition of si base units before the 2019 redefinition of the si base units the mole was defined as the amount of substance of a system that contains as many elementary entities as there are atoms in 12 grams of carbon 12 the most common isotope of carbon