

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

BM King



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Whispering the Secrets of Language: An Mental Quest through **Explore Learning Gizmo Answer Key Plate Tectonics**

In a digitally-driven earth wherever displays reign great and instant conversation drowns out the subtleties of language, the profound strategies and mental subtleties hidden within phrases frequently go unheard. However, located within the pages of **Explore Learning Gizmo Answer Key Plate Tectonics** a fascinating fictional prize pulsing with organic thoughts, lies an extraordinary journey waiting to be undertaken. Published by an experienced wordsmith, this wonderful opus encourages readers on an introspective journey, softly unraveling the veiled truths and profound affect resonating within the fabric of every word. Within the psychological depths with this moving evaluation, we will embark upon a genuine exploration of the book is core subjects, dissect their charming publishing design, and yield to the effective resonance it evokes deep within the recesses of readers hearts.

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web equipment and systems ap1000 design control document nrc staff approval is required prior to implementing a change in this information see dcd introduction section 3 5 tier 2 material 3 8 1 revision 16 3 8 design of category i structures 3 8 1 concrete containment this subsection is not applicable to the ap1000 3 8 2 steel containment

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