

Name: _____

Date: _____

Student Exploration: Plate Tectonics

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

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? _____

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

Activity A: Sliding plates

Get the Gizmo ready:

- Select BOUNDARY A.



Question: What happens when plates slide past one another?

1. **Observe:** Boundary A is a **transform boundary**. The arrows below the BOUNDARY A label will move the plates. Click the left arrow once to see how the plates move.

How would you describe the motion of plates in a transform boundary? _____

Plate Tectonics Gizmo Answer Key

Julia Schneider

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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New Scientist ,1973

Whispering the Techniques of Language: An Psychological Journey through **Plate Tectonics Gizmo Answer Key**

In a digitally-driven world wherever displays reign great and quick communication drowns out the subtleties of language, the profound strategies and emotional nuances concealed within words frequently get unheard. However, situated within the pages of **Plate Tectonics Gizmo Answer Key** a fascinating fictional prize pulsating with organic thoughts, lies an exceptional quest waiting to be undertaken. Published by a skilled wordsmith, this wonderful opus attracts visitors on an introspective journey, delicately unraveling the veiled truths and profound affect resonating within the very cloth of each and every word. Within the mental depths with this emotional evaluation, we can embark upon a sincere exploration of the book is core subjects, dissect its captivating writing design, and succumb to the strong resonance it evokes serious within the recesses of readers hearts.

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