

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

J Elliott

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.

Plate Tectonics Gizmo Answer Key:

The Enigmatic Realm of **Plate Tectonics Gizmo Answer Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Plate Tectonics Gizmo Answer Key** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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