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. Volcances are openings in Earth's crust where lava, gas, and ash can erupt. Where are active volcances located? Ash a volcances, our highestilly located behaves because / plates. Promy of forces our found along the form of force our fields.

 Inc. Pacific Octors.
- 2. An earthquake is a violent shaking of Earth's surface. Where are earthquakes common?

because the facility plate is subducted beneath successfully plates

Gizmo Warm-up

Volcances, 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? _____

Astronosphere, Lithosphere, Crost

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, Convergent: Collision, Convergent: Subjection, Divergent



Plate Tectonics Exploration Guide Answers

John T. Salinas

Plate Tectonics Exploration Guide Answers:

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