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Student Exploration: Plate Tectonics

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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?

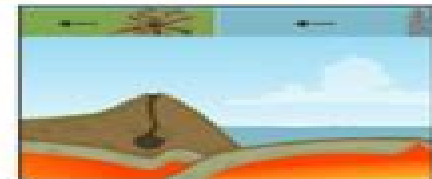
They are located at the edges of the tectonic plates.

2. An **earthquake** is a violent shaking of Earth's surface. Where are earthquakes common?

They are commonly found also on the edges of the tectonic plates and occur when the plates move or rub up against each other.

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?

the crust, lithosphere and mantle

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, convergent boundary: collisional, convergent boundary: subduction, divergent boundary.

Answers For Plate Tectonics In Gizmos

Leslie W. Trowbridge, Rodger W. Bybee



Answers For Plate Tectonics In Gizmos:

New Scientist ,1973 Teaching Secondary School Science Leslie W. Trowbridge,Rodger W. Bybee,1996 This market leading book has been updated to reflect the latest in learning theory science reform and professional development Includes complete chapters on incorporating educational technology into the science classroom classroom management and conflict resolution and teaching science for cultural and gender differences For Educators and School Administrators for Secondary Science Middle School Science & Technology ,1994 **Discover** ,2004-07 **The Wall Street Journal** ,2004 *Plate Tectonics and Continental Drift* John Edwards,2005 This series offers a detailed informative and lively discussion on four of the key areas of physical geography Each book helps develop the knowledge of how specific features of the Earth are formed their causes and effects patterns and processes and our study and understanding of them The series aims not only to answer but also to inspire questions about different environments and landscapes and our relationships with some of the greatest forces of nature we experience on Earth Photographs bring the effects of the subject vividly to life while diagrams enhance the readers practical understanding of the processes that have created the landscapes of the world in which we live today

Explore Tectonics ,2003-08-30 *Plate tectonics* X. le Pichon,1976 Plate Tectonics Fiona Young-Brown,2018-12-15 This essential volume explores the slow but mighty shifts that created the continents and that continue to shape modern landscapes Readers will look at theories put forward through the ages to explain volcanoes and earthquakes and they ll examine how geologists learned what we now understand about Earth s crust In a world of constant movement how do these ever shifting plates affect our lives today Photographs diagrams and sidebars help students understand the science that answers this and other questions **Plate Tectonics 38 Success Secrets - 38 Most Asked Questions on Plate**

Tectonics - What You Need to Know Tammy Duncan,2014-10-09 A brand new Plate tectonics Guide Plate tectonics from the Late Latin tectonicus as of the concerning to building is a methodical hypothesis that explains the extensive motions of Earth s geosphere The type constructs on the notions of mainland course elaborated throughout the foremost limited periods of ten years of the 20th era The geoscientific group received the hypothesis following the notions of seafloor extending were elaborated in the belated 1950s and first 1960s There has never been a Plate tectonics Guide like this It contains 38 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Plate tectonics A quick look inside of some of the subjects covered Supercontinent Supercontinents and plate tectonics Plate tectonics Floating continents paleomagnetism and seismicity zones Geology Plate tectonics List of plate tectonics topics Other plate tectonics articles Plate tectonics Continental drift Plate tectonics Definition and refining of the theory Antler orogeny Plate tectonics Lystrosaurus Plate tectonics Plate tectonics Key principles Arsia Mons Possible plate tectonics Dan McKenzie geophysicist Plate Tectonics

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Table of Contents Answers For Plate Tectonics In Gizmos

1. Understanding the eBook Answers For Plate Tectonics In Gizmos
 - The Rise of Digital Reading Answers For Plate Tectonics In Gizmos
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Plate Tectonics In Gizmos
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Plate Tectonics In Gizmos
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Plate Tectonics In Gizmos
 - Personalized Recommendations
 - Answers For Plate Tectonics In Gizmos User Reviews and Ratings
 - Answers For Plate Tectonics In Gizmos and Bestseller Lists
5. Accessing Answers For Plate Tectonics In Gizmos Free and Paid eBooks
 - Answers For Plate Tectonics In Gizmos Public Domain eBooks
 - Answers For Plate Tectonics In Gizmos eBook Subscription Services
 - Answers For Plate Tectonics In Gizmos Budget-Friendly Options

6. Navigating Answers For Plate Tectonics In Gizmos eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Plate Tectonics In Gizmos Compatibility with Devices
 - Answers For Plate Tectonics In Gizmos Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Plate Tectonics In Gizmos
 - Highlighting and Note-Taking Answers For Plate Tectonics In Gizmos
 - Interactive Elements Answers For Plate Tectonics In Gizmos
8. Staying Engaged with Answers For Plate Tectonics In Gizmos
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Plate Tectonics In Gizmos
9. Balancing eBooks and Physical Books Answers For Plate Tectonics In Gizmos
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Plate Tectonics In Gizmos
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers For Plate Tectonics In Gizmos
 - Setting Reading Goals Answers For Plate Tectonics In Gizmos
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers For Plate Tectonics In Gizmos
 - Fact-Checking eBook Content of Answers For Plate Tectonics In Gizmos
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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