



Name: **Jerry Brazzle**

Date: **11/9/2022**

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?

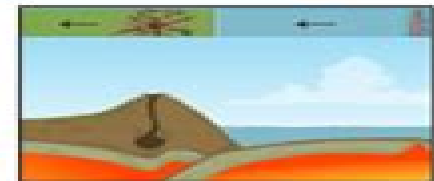
Active volcanoes are located where gaps in the Earth's crust allow magma to flow to the surface.

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

Earthquakes are more common near tectonic plates.

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 layer of Earth that you can see are the Continental crust and the lithosphere and the 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?

The four boundaries I see are Transform boundaries, Convergent Subduction, Convergent Collision, and Divergent Boundaries.

Answers For Plate Tectonics In Gizmos

Kent C. Condie



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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 *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 **Plate Tectonics** ,2010 *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 List of plate tectonics topics Paleococontinents Plate tectonics Exoplanets Climate change Plate tectonics Plate tectonics Current plates Isostasy Isostatic effects of plate tectonics List of plate tectonics topics Articles for individual plates Fred Vine Plate Tectonics List of plate tectonics topics Other articles relating to specific locations Tectonics Plate tectonics Extinction events Plate tectonics Plate tectonics Mid oceanic ridge spreading and convection and much more **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** X. le Pichon,1976 **Explore Tectonics**,2003-08-30 **Plate Tectonics** Alvin Silverstein,Virginia B. Silverstein,Laura Silverstein Nunn,2009-01-01 Discusses plate tectonics the theory that the surface of the earth is always moving and the connection of this phenomenon to earthquakes and volcanoes **Plate Tectonics** Naomi Oreskes,2018-10-08 This book provides an overview of the history of plate tectonics including in context definitions of the key terms It explains how the forerunners of the theory and how scientists working at the key academic institutions competed and collaborated until the theory coalesced **Plate Tectonics** Jon Erickson,2001 Explains the theory of continental drift and shows how this activity has affected the Earth s geological composition **Plate Tectonics** D. C. Heather,1979 **Plate Tectonics** Wolfgang Frisch,Martin Meschede,Ronald C. Blakey,2016-08-23 How are mountains formed Why are there old and young mountains Why do the shapes of South America and Africa fit so well together Why is the Pacific surrounded by a ring of volcanoes and earthquake prone areas while the edges of the Atlantic are relatively peaceful Frisch and Meschede and Blakey answer all these questions and more through the presentation and explanation of the geo dynamic processes upon which the theory of continental drift is based and which have lead to the concept of plate tectonics **Plate Tectonics** Xavier Le Pichon,Jean Francheteau,Jean Bonnin,2013-10-22 Developments in Geotectonics 6 Plate Tectonics focuses on the exposition of the plate tectonics hypothesis as well as plate boundaries stratification and kinematics The book first offers information on the rheological stratification of the mantle and kinematics of relative movements Topics include lithosphere asthenosphere kinematics of finite motions measurements of instantaneous movements and worldwide kinematic pattern The text then ponders on movements relative to a frame external to the plates and processes at accreting plate boundaries Discussions focus on reference frames paleomagnetic synthesis creation of oceanic crust and continental rifts The publication elaborates on processes at consuming plate boundaries including sinking plate model structure of trenches and associated island arcs and cordilleras and consumption of continent bearing lithosphere The text is a valuable source of data for readers interested in plate tectonics **Plate Tectonics & Crustal Evolution** Kent C. Condie,2013-10-22 This substantially revised edition includes recently published information relating to plate tectonics and continental origin A large number of new figures have been added and new sections included on meteorites seismic tomography mantle convection accretionary terranes mantle sources and evolution continental growth secular changes in Earth history also a new chapter on exogenic Earth systems In addition the following topics have been substantially revised lunar origin global gravity origin of the core metamorphism plate boundaries hotspots tectonic settings and magma associations Among the new features the Tectonic Map of the World has also been updated **Plate Tectonics**

Julia J. Quinlan, 2017-12-15 The ground beneath our feet feels sturdy and still but Earth is actually covered in moving plates. These large plates make up the outer layer of Earth's surface and sit on top of another layer made up of molten rock. Borders between two plates are often the site of earthquakes and volcanoes. The plates can slide against each other, crash into each other, move apart, and even create mountains. There is so much to learn about what's going on beneath the surface as is provided here for your readers, perfectly encapsulated.

Plate Tectonics: A Very Short Introduction Peter Molnar, 2015-03-26 The 1960s revealed a new and revolutionary idea in geological thought: that the continents drift with respect to one another. After having been dismissed for decades as absurd, the concept gradually became part of geology's basic principles. We now know that the Earth's crust and upper mantle consist of a small number of rigid plates that move, and there are significant boundaries between pairs of plates, usually known as earthquake belts. Plate tectonics now explains much of the structure and phenomena we see today: how oceans form, widen, and disappear; why earthquakes and volcanoes are found in distinct zones which follow plate boundaries; how the great mountain ranges of the world were built. The impact of plate tectonics is studied closely as these processes continue: the Himalaya continues to grow, the Atlantic is widening, and new oceans are forming. In this Very Short Introduction, Peter Molnar provides a succinct and authoritative account of the nature and mechanisms of plate tectonics and its impact on our understanding of Earth.

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arrhenius model of bases a substance that contains a hydroxide group and dissociates to produce a hydroxide

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so 4 3 aq 1 3h 2 g calcium carbonate and hydrobromic acid