

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? _____

Answers For Explorelearning Student Exploration Plate Tectonics

Jason D. Nemeth



Answers For Explorelearning Student Exploration Plate Tectonics:

Teaching and Learning Online Franklin S. Allaire, Jennifer E. Killham, 2023-01-10 Teaching and Learning Online Science for Elementary Grade Levels explores the challenges of teaching science virtually It includes sections on frameworks teacher journeys and lesson plans aligned with Next Generation Science Standards offering tips resources and discussion questions for educators and students

Explore Tectonics, 2003-08-30 **Investigating Plate Tectonics** Greg Young, 2007-09-21 In this adventurous title readers learn all about plate tectonics A brief history of Alfred Wegener's theory of continental drift introduces readers to the development of plate tectonics and how it helped form the Earth we know today Through colorful images helpful charts and graphs and easy to read text readers will discover such fascinating topics as magnetic pole reversal divergent and convergent plate boundaries the ocean continental division and the San Andreas Fault A captivating lab activity is featured to encourage children to further explore geology

Plate Tectonics and Disasters Tom Greve, 2013 This Book Goes Into Great Detail About The Different Layers Of Our Earth And How The Shifting Tectonic Plates Can Cause Disasters Such As Earthquakes And Tsunamis

Plate Tectonics and Disasters Tom Greve, 2014-05-30 This book goes into great detail about the different layers of the Earth and how the shifting tectonic plates can cause natural disasters such as earthquakes and tsunamis In depth information and stunning photographs reinforce the informative text

Plate Tectonics, 2nd Edition Rebecca L. Johnson, 2013-01-01 For hundreds of years people found the fossils of ancient sea creatures at the tops of tall mountains Scientists puzzled over this problem A fish couldn't have swum up a mountain And how could rocks on a mountain move up from the bottom of a sea Geologists finally found the answers they needed in the 1960s when they developed the theory of plate tectonics This theory revolutionized our understanding of the earth Plate tectonics explains how volcanoes form why earthquakes happen and what goes on deep inside the earth to make the continents move This book tells the story of scientists and their discoveries to explain how the theory of plate tectonics came to be

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 Science Learning Guide NewPath Learning, 2014-03-01 The Plate Tectonics Student Learning Guide includes self directed readings easy to follow illustrated explanations guiding questions inquiry based activities a lab investigation key vocabulary review and assessment review questions along with a post test It covers the following standards aligned concepts Earth's Interior Heat Transfer Continental Drift Sea Floor Spreading Theory of Plate Tectonics Plate Tectonic Boundaries Changes in Earth's Surface Volcanoes and Earthquakes Aligned to Next Generation Science Standards NGSS and other state standards

Plate Tectonics - How it works Cox. Hart, 1986

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 Steve Tomecek, 2011. Examines the evolution of plate tectonic theory from its beginnings as a wild idea of drifting continents to its acceptance as the main concept that drives geology today.

Plate Tectonics D. C. Heather, 1979. **STC-Secondary Exploring Plate Tectonics Student Edition**, 2011-01.

Plate Tectonics Wolfgang Frisch, Martin Meschede, Ronald C. Blakey, 2022-11-26. This textbook explains how mountains are formed and why there are old and young mountains. It provides a reconstruction of the Earth's paleogeography and shows why the shapes of South America and Africa fit so well together. Furthermore, it explains why the Pacific is surrounded by a ring of volcanoes and earthquake-prone areas, while the edges of the Atlantic are relatively peaceful. This thoroughly revised textbook edition addresses all these questions and more through the presentation and explanation of the geodynamic processes upon which the theory of continental drift is based and which have led to the concept of plate tectonics. It is a source of information for students of geology, geophysics, geography, geosciences in general, general natural sciences, as well as professionals and interested laymen.

Changes in Students' Understanding of Plate Tectonics Resulting from Cooperative Strategies Dale Martin Trapp, 1995.

This Dynamic Earth W. Jacquelyne Kious, Robert I. Tilling, 1996. Provides a brief introduction to the concept of plate tectonics. Highlights some of the people and discoveries that have advanced the development of the theory and traces its progress since its proposal. Fully illustrated with extraordinary color photos and maps. Chapters: historical perspective, developing the theory, ocean floor mapping, magnetic stripping and polar reversals, magnetic stripes and isotopic clocks, understanding plate motions, Hotspots, mantle thermal plumes, some unanswered questions, plate tectonics and people. References.

Plate Tectonics Kent C. Condie, 1997-05-07. This comprehensive text has established itself over the past 20 years as the definitive work in its field, presenting a thorough coverage of this key area of structural geology in a way which is ideally suited to advanced undergraduate and masters courses. The thorough coverage means that it is also useful to a wider readership as an up-to-date survey of plate tectonics. The fourth edition brings the text fully up to date with coverage of the latest research in crustal evolution, supercontinents, mass extinctions. A new chapter covers the feedbacks of various Earth systems. In addition, a new appendix provides a valuable survey of current methodology.

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 Gary Bruce Lewis, 1994. Earth's layers: Core, Mantle, Crust, Plate boundaries, Plate tectonics. *Plate*

Tectonics Jason D. Nemeth, 2012-01-15 Provides simple information about plate tectonics including the movement of the plates mountain formation and earthquakes

Unveiling the Magic of Words: A Overview of "**Answers For Explorelearning Student Exploration Plate Tectonics**"

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