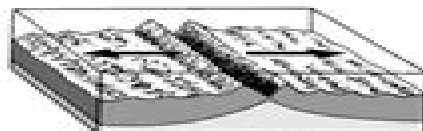


**Plate Tectonics • Review and Reinforce**

## The Theory of Plate Tectonics

### Understanding Main Ideas

Label each figure by writing the type of plate boundary it shows.



1. \_\_\_\_\_



2. \_\_\_\_\_



3. \_\_\_\_\_

Answer the following questions on a separate sheet of paper.

4. Describe what happens when (a) two plates carrying oceanic crust collide, (b) two plates carrying continental crust collide, and (c) a plate carrying oceanic crust collides with a plate carrying continental crust.
5. Explain what force caused the movement of the continents from one supercontinent to their present positions.

### Building Vocabulary

Fill in the blank to complete each statement.

6. A scientific \_\_\_\_\_ is a well-tested concept that explains a wide range of observations.
7. Breaks in Earth's crust where rocks have slipped past each other are called \_\_\_\_\_.
8. The lithosphere is broken into separate sections called \_\_\_\_\_.
9. A(n) \_\_\_\_\_ is a deep valley on land that forms along a divergent boundary.
10. The geological theory that states that pieces of Earth's crust are in constant, slow motion is called \_\_\_\_\_.

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**Rachel S Tattersall**



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*The School Librarian*, 1999      Books in Print Supplement, 2002      Plate tectonics, 2004      **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 fields 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* X. le Pichon, 1976      **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* 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* Jason D. Nemeth, 2012-01-15 Around 225 million years ago Earth was home to the supercontinent Pangaea and the massive sea Panthalassa In fact Earth's land and water existed in several configurations before today's familiar continents and oceans formed Readers of this book will get an accessible introduction to plate tectonics This key scientific theory explains why Earth's landmasses have changed over time The theory posits that the planet's crust is broken up into plates that are constantly if slowly on the move The book also examines the impact of plate tectonics on volcanoes earthquakes and the formation of mountains and rift valleys      **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 Allan Cox, 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* Wolfgang Frisch,Martin Meschede,Ronald C. Blakey,2010-11-02 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 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 Paleacontinents 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** Kevin Cuff,Ian Carmichael,Carolyn Willard,2002 Activities designed for students to conduct simulated research projects at key geological sites around the world **Plate Tectonics** Eileen Greer,2016-12-15 Earth s surface is broken up into numerous big pieces called plates Believe it or not these plates are constantly on the move This book explores the exciting earth science topic of plate tectonics Readers will learn about how Earth s plates move and what happens when they collide Full color photographs of the incredible landscape features that are created by plate movement fill the pages and are complimented by helpful diagrams This book covers STEM topics and encourages readers to think like scientists and engineers *Plate Tectonics* Jon Erickson,2001 Explains the theory of continental drift and shows how this activity has

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