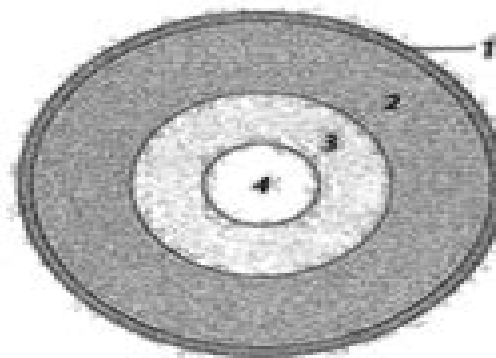


## Earth's Interior

### Understanding Main Ideas

*Label the layers of Earth by writing the name of the layer in the blank.*

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_



**Earth's layers**

*Answer the following questions on a separate sheet of paper.*

5. What are two types of evidence geologists use to learn about Earth's interior?
6. Compare and contrast the asthenosphere with the lithosphere.

### Building Vocabulary

*Match each term with its definition by writing the letter of the correct definition on the line beside the term in the left column.*

- |       |                  |
|-------|------------------|
| _____ | 7. basalt        |
| _____ | 8. asthenosphere |
| _____ | 9. crust         |
| _____ | 10. outer core   |
| _____ | 11. lithosphere  |
| _____ | 12. granite      |
| _____ | 13. pressure     |
| _____ | 14. seismic wave |

- a. a rock that makes up much of the ocean floor
- b. the force pushing on a surface or area
- c. the layer made up of liquid iron and nickel
- d. the uppermost part of the mantle
- e. a rock that makes up the core of the continents
- f. outer rind of rock
- g. a wave produced by an earthquake
- h. soft layer of rock in the mantle

# Plate Tectonics Review And Reinforce Earth S Interior Answers

**Terry C. Jones**



## **Plate Tectonics Review And Reinforce Earth S Interior Answers:**

*The Changing Earth: Teacher's ed*, 2005      *Holt People, Places, and Change* Robert J. Sager, 2003      **Program**  
**Descriptions for Science Instructional Materials**, 1986      *Essentials of Geology* Reed Wicander, 1999      Bulletin of the Atomic Scientists, 1973-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      **Congressional Record** United States. Congress, 1978 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873      **Spring Meeting** American Geophysical Union. Meeting, 1999      **Mistake Earth Science** Hans-Joachim Zillmer, 2007 Zillmer presents a global revolution in an exciting format contradicting the scientific doctrines of evolution and geology Persons interested in the development of our planet and biosphere will see the Earth s history with completely new eyes      *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      **How the Earth Works** Andrew Bell, Open University. How the Earth Works Course Team, Stephen Blake, Peter J. Smith, 1993\*      *Plate Tectonics* Jonathon S. Erickson, Jon Erickson, 1999 Explains the theory of continental drift and shows how this activity has affected the Earth s geological make up      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 Kevin Cuff, 2002  
**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

**The Behavior of the Earth**

Claude J. Allègre, 1988 Well over a century after Darwin gave biology its unifying theory of evolution the earth sciences experienced a similar revolution and the theory of plate tectonics took hold Plate tectonics posed the idea that the earth's crust is divided into a number of large thin plates always in motion relative to one another In *The Behavior of the Earth* world renowned earth scientist Claude Allègre sets forth the exciting events in this contemporary revolution from its first stirrings in the nineteenth century and Alfred Wegener's original model of continental drift 1912 through the development of its full potential in modern plate tectonic theory Few scientific theories have been so all encompassing and none has surpassed plate tectonics in explaining such a wide variety of geological phenomena from the origins of mountain building to the formation of the ocean floor As it integrated our knowledge of the earth's surface with the investigation of its interior plate tectonics fused two previously autonomous strains of scientific inquiry Continental mobility changed for all time our view of the earth from a static globe to an evolving living planet and allowed us to see that changes in the earth's surface are but exterior manifestations of a dynamic interplay of forces within the crust and the mantle Allègre casts his lucid exposition of this scientific theory within the historical context of its struggle for acceptance As he introduces us to the huge cast of personalities and researchers who contributed to the theory he illuminates the complex role that the scientific community plays in the proliferation and acceptance of new ideas Allègre is as insightful in discussing the human motivation for scientific endeavor as he is skillful in presenting the science that results from this effort Richly illustrated and including a glossary this book offers the reader rare access both to the central theory of plate tectonics and to the constellation of problems and possibilities that preoccupy earth scientists today

*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 reader's practical understanding of the processes that have created the landscapes of the world in which we live today

*Tectonic Consequences of the Earth's Rotation* Robert C. Bostrom, 2000 This book reviews the cumulative evidence for a connection between the Earth's rotation and geotectonics Satellite and plate motion data in particular suggest that the rotation affects geotectonics The author recasts the classical models of body tides and argues that the energy from the tides directs the otherwise random process of convection Among other benefits this model could prove an important step in deciphering the flow of the Earth's mantle Introducing a more complete model of the tidal Earth than those orthodox until now Bostrom points to the likelihood that a non reversing term accounts for the remarkable contrast between the Earth and its sister planet Venus including the existence of mobile plates

and the preservation of liquid water      How the Earth Works Andrew Bell, Open University. S267 Course Team, 1997

Tectonics Eldridge M. Moores, Robert J. Twiss, 2014-07-23 Deformation of the Earth's crust happens at a multitude of scales ranging from submicroscopic to planetary Tectonics explores structures and processes from regional to global differentiating itself from the material covered in most structural geology textbooks Moores and Twiss emphasize basic principles and methodologies of tectonics embracing the time honored perspective of using present processes to understand the past Comprehensive in scope and detail coverage includes the effects of plate motions and reconstructions and the resultant structures associated with active rift transform and subduction boundaries as well as triple junctions and collision zones deformations of both the ocean basins and the continents and orogenic belts Moores and Twiss present tectonics as an open ended field of study in which assumptions can be challenged and interpretations changed The authors emphasize the use of models as a means of understanding observations and putting them in context to maintain a distinction between what we know from observing the Earth and what we infer from interpretation      **This Dynamic Earth** W. Jacquelyne Kious, Robert I. Tilling, Geological Survey (U.S.), 1996 In the early 1960s the emergence of the theory of plate tectonics started a revolution in the earth sciences Since then scientists have verified and refined this theory and now have a much better understanding of how our planet has been shaped by plate tectonic processes We now know that directly or indirectly plate tectonics influences nearly all geologic processes past and present Indeed the notion that the entire Earth's surface is continually shifting has profoundly changed the way we view our world

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