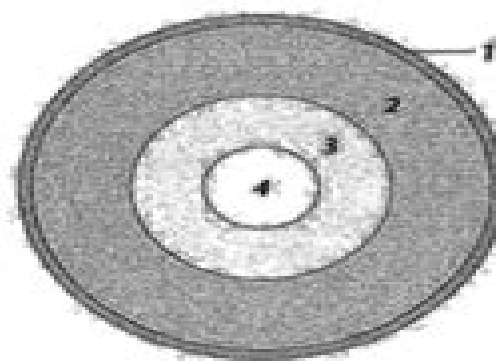


Earth's Interior

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 | a. a rock that makes up much of the ocean floor |
| _____ 8. asthenosphere | b. the force pushing on a surface or area |
| _____ 9. crust | c. the layer made up of liquid iron and nickel |
| _____ 10. outer core | d. the uppermost part of the mantle |
| _____ 11. lithosphere | e. a rock that makes up the core of the continents |
| _____ 12. granite | f. outer rind of rock |
| _____ 13. pressure | g. a wave produced by an earthquake |
| _____ 14. seismic wave | h. soft layer of rock in the mantle |

Plate Tectonics Review And Reinforce Earth S Interior Answers

**Andrew Bell, Open University. How the
Earth Works Course Team, Stephen
Blake, Peter J. Smith**

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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

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 All gre 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 All gre 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 All gre 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** 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 **How the Earth Works** Andrew Bell,Open University. S267 Course Team,1997

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 **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

The Importance of Plate Tectonic Theory Peggy J. Parks, 2015-05-01 What is the nature of science The answer to that question can be found in the momentous theories and discoveries that have occupied scientists for generations The Importance of Scientific Theory series helps students develop a broader and deeper understanding of the nature of science by examining richly detailed examples from history Titles in this series examine how scientists arrived at core ideas such as atomic theory germ theory evolution theory and more as well as what resulted from widespread acceptance of these theories Each volume includes a visual chronology sidebars that highlight and further explain key events and concepts and wherever possible the words of the scientists themselves Book jacket

Mantle Convection W. R. Peltier, 1989-01-01 A text which details the most important advance in earth sciences since the emergence of plate tectonics in the 1960s Armed with the new techniques of seismic tomography nine leading scientists in geophysical research present an experimental and theoretical description of the dynamics of the Earth's mantle What emerges is a coherent modern theory of mantle convection leading to a greater understanding of both surface motions and large scale structure of the Earth's interior

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