

Lesson 3 The Theory of Plate Tectonics

Predict three ideas that will be discussed in Lesson 3 after reading the headings. Write your predictions in your Science Journal.

Main Idea

The Plate Tectonics Theory

I found this on page 233

I found this on page 233

I found this on page 234

Plate Boundaries

I found this on page 235

Details

State the problem that scientists had with seafloor spreading.

Sample answer: When new oceanic crust is made, it spreads out, taking up space. Scientists did not understand how new crust was not increasing the size of Earth.

Define plate tectonics. Explain what the word tectonic means as part of your definition.

Sample answer: Plate tectonics is a theory which states that Earth's surface is made of plates that move with respect to one another. The word tectonic means "builder" and refers to the forces that shape Earth's crust.

Identify the layers of Earth involved in plate movements. Describe how these layers interact.

Layer	Description
Lithosphere	consists of the crust and the solid, uppermost mantle
Asthenosphere	layer that flows beneath the rigid lithosphere

Organize information about divergent plate boundaries. Use arrows to show how plates move relative to one another at this type of boundary.

Type of Boundary	Description	Movement
Divergent	forms where two plates separate; can exist in the middle of a continent or on the ocean floor	← →

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Glencoe Sci Earth Science Chapter 21 Our Impact on Water and Air Chp Res 519 02 McGraw-Hill Staff,2001-08
Glencoe Science McGraw-Hill Staff,2001-08 Resources for Teaching Middle School Science Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of

diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents **Glencoe Science** McGraw-Hill Staff,2001-09

Glencoe Earth Science: Lab Mnl. Se. Emeritus Professor of English Literature Susan Snyder,Snyder,1996-06

Glencoe Earth Science: Geology, the Environment, and the Universe, Student Edition McGraw Hill,2012-01-18

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Environment, and the Universe, Standardized Test Prep, Student Edition McGraw-Hill Education,2012-01-02 Glencoe Earth Science standardized test preparation **Science Learning and Instruction** Marcia C. Linn,Bat-Sheva Eylon,2011-05-20 Science Learning and Instruction describes advances in understanding the nature of science learning and their implications for the design of science instruction The authors show how design patterns design principles and professional development opportunities coalesce to create and sustain effective instruction in each primary scientific domain earth science life science and physical science Calling for more in depth and less fleeting coverage of science topics in order to accomplish knowledge integration the book highlights the importance of designing the instructional materials the examples that are introduced in each scientific domain and the professional development that accompanies these materials It argues that unless all these efforts are made simultaneously educators cannot hope to improve science learning outcomes The book also addresses how many policies including curriculum standards guidelines and standardized tests work against the goal of integrative understanding and discusses opportunities to rethink science education policies based on research findings from instruction that emphasizes such understanding (Glencoe Science) Science Notebook: Earth Science -

Geology, the Environment, and the Universe ,2012

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Table of Contents Glencoe Science Earth Science Answers

1. Understanding the eBook Glencoe Science Earth Science Answers
 - The Rise of Digital Reading Glencoe Science Earth Science Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Glencoe Science Earth Science Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Glencoe Science Earth Science Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Glencoe Science Earth Science Answers
 - Personalized Recommendations
 - Glencoe Science Earth Science Answers User Reviews and Ratings
 - Glencoe Science Earth Science Answers and Bestseller Lists
5. Accessing Glencoe Science Earth Science Answers Free and Paid eBooks

- Glencoe Science Earth Science Answers Public Domain eBooks
 - Glencoe Science Earth Science Answers eBook Subscription Services
 - Glencoe Science Earth Science Answers Budget-Friendly Options
6. Navigating Glencoe Science Earth Science Answers eBook Formats
- ePub, PDF, MOBI, and More
 - Glencoe Science Earth Science Answers Compatibility with Devices
 - Glencoe Science Earth Science Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Glencoe Science Earth Science Answers
 - Highlighting and Note-Taking Glencoe Science Earth Science Answers
 - Interactive Elements Glencoe Science Earth Science Answers
8. Staying Engaged with Glencoe Science Earth Science Answers
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Glencoe Science Earth Science Answers
9. Balancing eBooks and Physical Books Glencoe Science Earth Science Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Glencoe Science Earth Science Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Glencoe Science Earth Science Answers
- Setting Reading Goals Glencoe Science Earth Science Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Glencoe Science Earth Science Answers
- Fact-Checking eBook Content of Glencoe Science Earth Science Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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