

# Ch. 9 Plate Tectonics: Study Guide

## Vocabulary

**9.4 Earth's Layered Structure:** crust, p. 233; mantle, p. 234; lithosphere, p. 234; asthenosphere, p. 235; outer core, p. 235; inner core, p. 235;

**9.1 Plate Tectonics:** continental drift, p. 246; Pangaea, p. 246; plate tectonics, p. 254; divergent boundary, p. 255; convergent boundary, p. 255; transform fault boundary, p. 255; ridge, p. 256; seafloor spreading, p. 256; subduction zone, p. 261; trench, p. 261; paleomagnetism, p. 265; hot spot, p. 268

## Reviewing Content

Choose the letter that best answers the question or completes the statement.

- What is the weaker, hotter zone beneath the lithosphere that allows for motion of Earth's rigid outer shell?  
 a. Crust  
**b. Asthenosphere**  
 c. outer core  
 d. inner core
- Most of Earth's earthquakes, volcanoes, and mountain building occur  
 a. in the center of continents.  
 b. in the Himalayas.  
**c. at plate boundaries.**  
 d. at volcanic island arcs.
- Alfred Wegener is best known for what hypothesis?  
 a. plate tectonics  
 b. seafloor spreading  
**c. continental drift**  
 d. subduction
- Complex mountain systems such as the Himalayas are the result of  
 a. oceanic-oceanic convergence.  
 b. hot spots.  
**c. continental volcanic arcs.**  
 d. continental-continental convergence.
- What is the type of plate boundary where two plates move together, causing one of the slabs of lithosphere to descend into the mantle beneath an overriding plate?  
**a. oceanic-continental convergent**  
 b. Divergent  
 c. transform fault  
 d. continental-continental convergent
- One of the main objections to Wegener's hypothesis of continental drift was that he was unable to provide an acceptable  
 a. rate of continental drift.  
 b. date of continental drift.  
**c. mechanism of continental drift.**  
 d. direction of continental drift.
- Which one of the following was NOT used as support of Wegener's continental drift hypothesis?  
**a. fossil evidence**  
 b. Paleomagnetism  
 c. the fit of South America and Africa  
 d. ancient climates
- At what type of plate boundary do plates move apart, resulting in the upwelling of material from the mantle to create new seafloor?  
**a. Divergent**  
 b. Convergent  
 c. transform fault  
 d. Subduction

Use the diagram below to answer Questions

- What feature is labeled B?  
**b. a trench**  
 a. a continental volcanic arc  
 c. continental lithosphere  
 d. an ocean ridge
- The process occurring at the location labeled D is  
 a. oceanic lithosphere being created.  
 b. continental lithosphere being created.  
**c. a continental-continental collision occurring.**  
 d. oceanic lithosphere being subducted.



# Answers Of Plate Tectonics

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## Answers Of Plate Tectonics:

*Plate Tectonics--Rock Your World Hands-On Activity* Sarah D. Giese,2014-01-01 Make geography fun and interactive to motivate your students Encourage teamwork creativity reflection and decision making Take an active approach to teaching while inspiring your students to make their own explorations of geography *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 **Science Games and Puzzles, Grades 5 - 8** Schyrlet Cameron,Carolyn Craig,2012-01-03 This book promotes science vocabulary building increases student readability levels and facilitates concept development through fun and challenging puzzles games and activities *A Teacher's Guide to Questions/answers and Lab Exercises Prepared to Accompany the Film "Inside Hawaiian Volcanoes"* Wendell A. Duffield,Richard S. Fiske,1989 *CUET-PG Geography Practice Question Bank Book 3000+ Question Answer As Per Updated Syllabus* DIWAKAR EDUCATION HUB,2024-01-24 CUET PG Geography Question Bank 3000 Chapter wise question With Explanations As per Updated Syllabus cover all 14 Chapters Highlights of CUET PG Geography Question Bank 3000 Questions Answer MCQ 215 MCQ of Each Chapter Unit wise As Per the Updated Syllabus Include Most Expected MCQ as per Paper Pattern Exam Pattern All Questions Design by Expert Faculties JRF Holder **PGT Geography Question Bank Chapterwise - for PGT Teachers** Mocktime Publication, PGT Geography Question Bank Chapterwise for PGT Teachers CliffsTestPrep FCAT Grade 10 Reading and Math Enrique Ortiz, EdD,Thomas R. Davenport,2007-05-21 Your guide to a higher score on the Florida Comprehensive Assessment Test Why CliffsTestPrep Guides Go with the name you know and trust Get the information you need fast Written by test prep specialists About the contents This book is two study guides in one With a detailed description of the exam plus 5 practice reading tests and 5 practice math tests it s the practical way to prepare for the Florida Comprehensive Assessment Test which you must pass as a requirement for graduation The Reading Test Overview with the types of questions and how to answer them Test taking strategies 5 practice reading tests with answers and explanations The Math Test Overview with the types of questions and how to answer them Test taking strategies 5 practice math tests with answers and explanations Test Prep Essentials from the Experts at CliffsNotes More than Notes CliffsAP CliffsComplete CliffsQuickReview CliffsTestPrep

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