

GEOL 1121 K

Physical Geology Laboratory

Lab 2 - Plate Tectonics

Objectives:

1. Explain and understand what the plate tectonics is.
2. Demonstrate and analyze Earth forces and plate boundaries.
3. Explain the characteristics of each plate boundaries (e.g., how many plates are involved in each plate boundary, the different types of interactions for every type of plate boundary, various types of rocks associated with each plate boundaries, etc.).
4. Given a map and required information, be able to draw a cross section of a plate boundary.
5. Measure and calculate rates of plate tectonic processes.

Exercise 1: Plate boundary

1A. Examine the cross section of a plate boundary in figures 2.1 and 2.2.

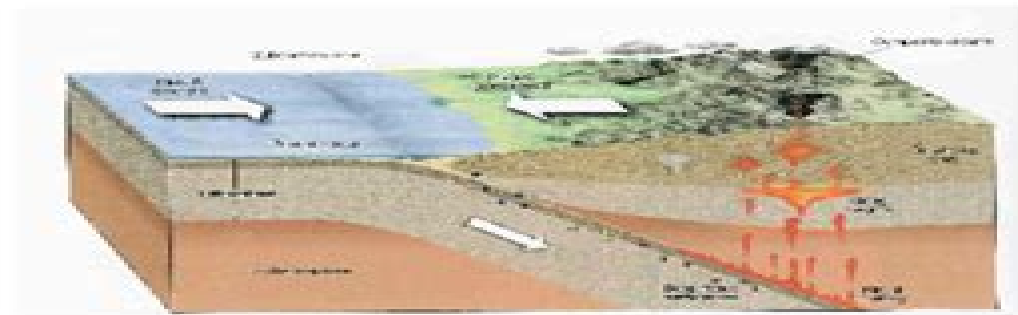


Figure 2.1- Plate boundary block diagram.

- a. What type of plate boundary is this?
 - This type of plate boundary found in figure 2.1 is a ocean- Continental lithosphere, because an oceanic lithosphere is subducting under a continental lithosphere.

Investigation 2 Plate Tectonics Lab Answers

National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision

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America's Lab Report National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2005-12-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished BSCS Science Technology : Investigating Earth Systems, Teacher Edition ,2005

ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1977

Earthquake Engineering Research Center Library Printed Catalog University of California, Berkeley. Earthquake Engineering Research Center. Library, 1975 *Inquiry-Based Science Activities in Grades 6-12* Patrick Brown, James Concannon, 2018-03-19 This new book shows middle and high school science teachers how to use evidence based inquiry to help students achieve deeper conceptual understanding Drawing on a wealth of research authors Pat Brown and Jim Concannon demonstrate how direct hands on experience in the science classroom can enable your students to become more self reliant learners They also provide a plethora of model lessons aligned with the Next Generation Science Standards NGSS and offer advice on how to create your own lesson plans and activities to satisfy the demands of your curriculum With the resources in this book you and your students will be able to ditch the textbook and embark upon an exciting and rewarding journey to scientific discovery *STEM Labs for Earth & Space Science, Grades 6 - 8* Schyrlet Cameron, Carolyn Craig, 2017-01-03 STEM Labs for Earth and Space Science for sixth eighth grades provides 26 integrated labs that cover the topics of geology oceanography meteorology astronomy The integrated labs encourage students to apply scientific inquiry content knowledge and technological design STEM success requires creativity communication and collaboration Mark Twain s Earth and Space Science workbook for middle school explains STEM education concepts and provides materials for instruction and assessment Each lab incorporates the following components creativity teamwork communication critical

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