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# Lab Activity: Crustal Boundaries

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## DISCUSSION QUESTIONS:

1. At what type of plate boundary is new oceanic crust formed?
2. What prominent sea-floor feature is located in the central Atlantic Ocean?
3. As distance from the mid-ocean ridge increases what happens to the age of the sea-floor?
4. Describe the pattern of earthquake depth along the Peru Chile Trench?
5. Name two geologic features that can be found at a subduction zone.

**CONCLUSION:** List and describe the three types of plate boundaries.

# Crustal Boundary Lab Answers

**Holt Rinehart & Winston**



## **Crustal Boundary Lab Answers:**

**Exposed Cross-Sections of the Continental Crust** M.H. Salisbury, David M. Fountain, 2012-12-06 In the Fall of 1988 64 geologists and geophysicists from 11 countries met in Killarney Ontario on the north shore of Lake Huron to examine evidence that suggests that the continental crust is exposed in cross section at several key locations on the Earth's surface. The meeting which was held under NATO auspices as an Advanced Study Institute was a landmark event in that it was the first time that many of the lead scientists working on these complexes in relative isolation around the world had ever gathered together to compare results. The present volume is a compendium of the invited lectures given on the principle sections plus an array of supporting papers on these and other sections as well as on related topics such as crustal emplacement mechanisms deformation and rheology. Nearly all of the best known sections are represented including the Ivrea Zone Calabria the Kapuskasing Zone Fiordland and many others. It is our hope that this Volume will serve as a reference for Earth scientists who are trying to understand levels of the crust not normally exposed to view as well as a point of departure for new research and a teaching aid to new entrants in this relatively new field of study.

**Analogue and Numerical Modelling of Crustal-scale Processes** Susanne Janita Henriët Buiters, Guido Schreurs, 2006 The crust of the Earth records the deformational processes of the inner Earth and the influence of the overlying atmosphere. The state of the Earth's crust at any time is therefore the result of internal and external processes which occur on different time and spatial scales. In recent years important steps forward in the understanding of such complex processes have been made by integrating theory and observations with experimental and computer models. This volume presents state of the art analogue and numerical models of processes that alter the Earth's crust. It shows the application of models in a broad range of geological problems with careful documentation of the modelling approach used. This volume contains contributions on analogue and numerical sandbox models models of orogenic processes models of sedimentary basins models of surface processes and deformation and models of faults and fluid flow.

*Crustal Earth Materials* Loren A. Raymond, Neil E. Johnson, 2017-10-20 An understanding of rocks and the minerals that comprise them lies at the core of every geologist's education. As more curricula combine mineralogy and petrology into a single course Raymond and Johnson have responded with a concise introduction to the study of Earth materials. The authors have written at a level that won't intimidate students encountering fundamental concepts for the first time yet with enough rigor that they'll be well prepared for future study. A broad approach to the subject that incorporates fluids and soils will appeal to instructors who teach engineering and environmental science students as well as future geoscientists. Abundant illustrations reinforce all of the ideas in the text. Many images are presented in color with additional color images available at [waveland.com](http://waveland.com). Raymond Johnson Problems appear throughout the book encouraging a deeper understanding for students. Helpful appendices make it easy for instructors to assign further exercises in rock and mineral identification as well as optical mineralogy and petrography.

*Heat and Fluid Flux at a Crustal Scale* Michael Hutnak,2007     *Im Earth Lab Explore Earth Sci* Claudia Owen,Diane Pirie,2001-08     *Achievements and New Frontiers in Research Oriented to Earthquake Forecasting* Giovanni Martinelli,Antonella Peresan,Ying Li,2022-06-23 Cover Image Credit Zhaofei Liu and Ying Li From the Institute of Earthquake Forecasting China     **Nares Strait and the Drift of Greenland** P.R.. Dawes,J. W. Kerr,1982     *Holt Science and Technology* Holt Rinehart & Winston,2001 Instructions guidelines and worksheets with answer keys for activities and projects that can be eaten     **Geophysical Abstracts** ,1965     Geophysical Abstracts Geological Survey (U.S.),1965     *Abstract Journal in Earthquake Engineering* ,1980     **Physics Briefs** ,1993     The Geology of Iberia: A Geodynamic Approach Cecilio Quesada,José Tomás Oliveira,2019-05-11 Adopting a global approach this unique book provides an updated review of the geology of Iberia and its continental margins from a geodynamic perspective Owing to its location close to successive plate margins Iberia has played a pivotal role in the geodynamic evolution of the Gondwanan Rheic Pangea Tethys and Eurasian plates over the last 600 Ma of Earth s history The geological record starts with the amalgamation of Gondwana in the Neoproterozoic which was succeeded by the rifting and spreading of the Rheic ocean its demise which led to the amalgamation of Pangea in the late Paleozoic and the rifting and spreading of several arms of the Neotethys ocean in the Mesozoic Era and their ongoing closure which was responsible for the Alpine orogeny The significant advances in the last 20 years have increasingly attracted international interest in exploring the geology of the Iberian Peninsula This final volume of the Geology of Iberia focuses on the active geological processes in Iberia including seismicity and active faulting as well as the modern landscapes in the Iberian Peninsula     *Petroleum Abstracts* ,1995-03     **Waves, Sound, and Light** Glencoe/McGraw-Hill,2001-06     *Canadian Journal of Earth Sciences* ,2011     **U.S. Government Research & Development Reports** ,1965     *Seismological Research Letters* ,2000     *Spring Meeting* American Geophysical Union. Spring Meeting,1998     **Oil & Gas Science and Technology** ,2005

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