

10. Use FIGURE 7.11, which illustrates a generalized cross section of the plate boundary along the western edge of South America, to answer the following questions.

- a. Label each of the following features on the block diagram.

Asthenosphere

Continental crust

Deep-ocean trench

Oceanic crust

Continental lithosphere

Oceanic lithosphere

- b. What type of plate boundary is illustrated in the figure? Be as specific as possible.

11. List and explain two lines of evidence from this exercise that support the theory of plate tectonics.

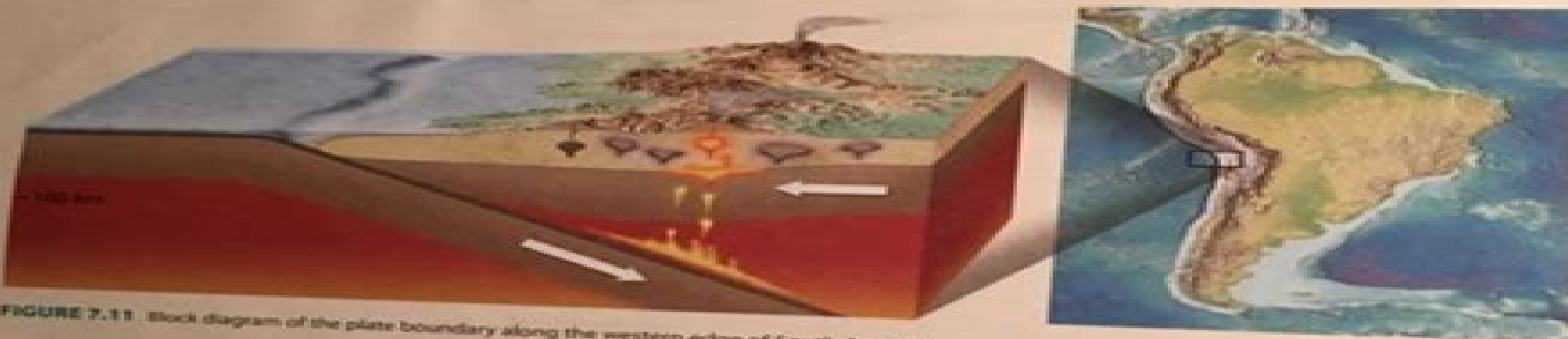


FIGURE 7.11 Block diagram of the plate boundary along the western edge of South America.

# Geology 1lab Plate Tectonics Answers

**Roy Livermore**



## Geology 1lab Plate Tectonics Answers:

*Cornell University Courses of Study* Cornell University, 1992      **The Software Encyclopedia** ,1986      Subject Guide to Books in Print ,1971      **Abstracts for the AGU Western Pacific Geophysics Meeting** ,2002      **Plate Tectonics** Gary Lewis,1966      Plate Tectonics Kevin Cuff,2002      **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      *Plate Tectonics* Jon Erickson,2001 Explains the theory of continental drift and shows how this activity has affected the Earth s geological composition      **Plate Tectonics for Introductory Geology** John Richard Carpenter,Philip M. Astwood,1983      **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      **Plate Tectonics** Naomi Oreskes,2018-10-08 This book provides an overview of the history of plate tectonics including in context definitions of the key terms It explains how the forerunners of the theory and how scientists working at the key academic institutions competed and collaborated until the theory coalesced      **Plate Tectonics & Crustal Evolution** Kent C. Condie,2013-10-22 This substantially revised edition includes recently published information relating to plate tectonics and continental origin A large number of new figures have been added and new sections included on meteorites seismic tomography mantle convection accretionary terranes mantle sources and evolution continental growth secular changes in Earth history also a new chapter on exogenic Earth systems In addition the following topics have been substantially revised lunar origin global gravity origin of the core metamorphism plate boundaries hotspots tectonic settings and magma associations Among the new features the Tectonic Map of the World has also been updated      **Plate Tectonics** Wolfgang Frisch,Martin Meschede,Ronald C.

Blakey,2010-11-02 How are mountains formed Why are there old and young mountains Why do the shapes of South America and Africa fit so well together Why is the Pacific surrounded by a ring of volcanoes and earthquake prone areas while the edges of the Atlantic are relatively peaceful Frisch and Meschede and Blakey answer all these questions and more through the presentation and explanation of the geo dynamic processes upon which the theory of continental drift is based and which have lead to the concept of plate tectonics

**TECTONIC PLATES - How the World Changed** Peter Roberts,2016 This is a fascinating and intriguing book that tells the geological story of the world over the last 750 million years The object of this book is to simplify a complex and very specialised subject so that it can be presented clearly and briefly The author presents fourteen briefly explained plate migration maps of the entire globe showing the approximated movements and positions of the world s major tectonic plates over the last 750 million years This gives the big picture explaining how and why our climate has changed so radically with time This book has been written and the maps drawn for beginners night classes schools universities amateur geologists climatologists and even for professional geologists It is for anyone who wants to understand the causes of the huge changes in the world s geology oceans and climate which have taken place long before humankind evolved and which have in turn created and moulded our planet s diverse geographical landscapes

**Physical Geology** Charles C. Plummer,David McGeary,1996

**Major Impacts and Plate Tectonics** Neville J. Price,2001 Neville Price presents a major breakthrough in our understanding of the subject of plate tectonics in this new book In this ambitious look at the importance of impacts of objects from space on the earth he challenges the fundamentals of the theory on which geoscience has rested for the past 25 years In the latter half of the 20th century earth scientists gradually became aware of the scale and effect of bombardment by meteoric material on Earth Prior to 1950 only a handful of small craters were generally accepted as resulting from impact events Now certain impacts number arou

**Plate Tectonics for Curious Kiwis** J. J. Aitken,1996

**Plate Tectonics** Allan Cox,R. B. Hart,2009-07-08 Palaeomagnetism plates hot spots trenches and ridges are the subject of this unusual book Plate Tectonics is a book of exercises and background information that introduces and demonstrates the basics of the subject In a lively and lucid manner it brings together a great deal of material in spherical trigonometry that is necessary to understand plate tectonics and the research literature written about it It is intended for use in first year graduate courses in geophysics and tectonics and provides a guide to the quantitative understanding of plate tectonics

*Investigating Plate Tectonics* Greg Young,2007-09-21 In this adventurous title readers learn all about plate tectonics A brief history of Alfred Wegener s theory of continental drift introduces readers to the development of plate tectonics and how it helped form the Earth we know today Through colorful images helpful charts and graphs and easy to read text readers will discover such fascinating topics as magnetic pole reversal divergent and convergent plate boundaries the ocean continental division and the San Andreas Fault A captivating lab activity is featured to encourage children to further explore geology

The Tectonic Plates are Moving! Roy Livermore,2018-03-08 Plate tectonics is a revolutionary

theory on a par with modern genetics Yet apart from the frequent use of clichés such as tectonic shift by economists, journalists and politicians the science itself is rarely mentioned and poorly understood This book explains modern plate tectonics in a non technical manner showing not only how it accounts for phenomena such as great earthquakes tsunamis and volcanic eruptions but also how it controls conditions at the Earth's surface including global geography and climate The book presents the advances that have been made since the establishment of plate tectonics in the 1960s highlighting on the 50th anniversary of the theory the contributions of a small number of scientists who have never been widely recognized for their discoveries Beginning with the publication of a short article in *Nature* by Vine and Matthews the book traces the development of plate tectonics through two generations of the theory First generation plate tectonics covers the exciting scientific revolution of the 1960s and 1970s its heroes and its villains The second generation includes the rapid expansions in sonar satellite and seismic technologies during the 1980s and 1990s that provided a truly global view of the plates and their motions and an appreciation of the role of the plates within the Earth system The final chapter brings us to the cutting edge of the science and the latest results from studies using technologies such as seismic tomography and high pressure mineral physics to probe the deep interior Ultimately the book leads to the startling conclusion that without plate tectonics the Earth would be as lifeless as Venus

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