

Plate Tectonics

Earth's Tectonic Plates

Plate Tectonics

The **lithosphere** is divided into a dozen major and several minor **plates**. The movement of the plates over Earth's surface is called **plate tectonics**. These plates can be composed in a combination of oceanic lithosphere or continental lithosphere. An earthquake's **epicenter** is the point on Earth's surface directly above the place where the earthquake occurs. Earthquake epicenters outline the plates because earthquakes occur everywhere plates come into contact with each other.

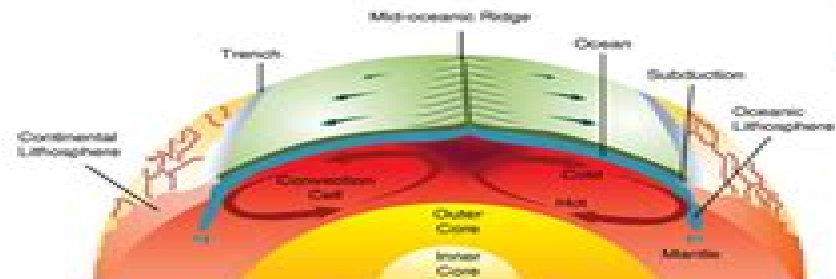
Study Tip

You can replicate plate tectonics with a piece of clay: mash two flat pieces together and to have a convergent boundary, pull them apart to see a divergent boundary, and slide them together to see a transform boundary.

How Plates Move

Mantle convection drives plate movement

1. Hot mantle from two adjacent cells rises at the ridge axis, creating new ocean crust
2. The top part of the convection cell moves horizontally away from the ridge crest
3. The outer parts of the convection cells plunge down into the deeper mantle, which also drags oceanic crust with it
4. The material sinks to the core and moves horizontally
5. Material heats up and reaches the zone where it rises again



Hot material rises at mid-ocean ridges and sinks at deep-sea trenches, which keeps the plates moving along the Earth's surface

Plate Boundaries

Plate Boundaries are the areas where two plates meet. The type of plate boundary and the type of crust found on the boundary determines what kinds of geologic activity are present.

Boundary Type	Description
Divergent Plate Boundary	Two plates move away from each other
Convergent Plate Boundary	Two plates move towards each other
Transform Plate Boundary	Two plates slip past each other

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Holt Science and Technology 2002 Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2002 Science Spectrum
Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03 **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 **Holt Science and Technology** Holt Rinehart & Winston, 2004-02 *Holt Science and Technology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004-01-01

Qualitative Inquiry in Geoscience Education Research Anthony D. Feig, Alison Stokes, 2011 Geology of the American Southwest W. Scott Baldrige, 2004-05-13 This 2004 book provides a concise accessible account of the geology and

landscape of Southwest USA for students and amateurs *The Elementary School Library Collection, Phases 1-2-3* ,1998

Rough-Hewn Land Keith Heyer Meldahl,2013-05 Rough Hewn Land tells the geologic story of the American West the story of its rocks rivers mountains earthquakes and mineral wealth including gold It tells it by taking you on a 1000 mile long field trip across the rough side of the continent from the California coast to the Rocky Mountains This book puts you on the outcrop geologic hammer in hand to explore the evidence for how the spectacular rough hewn lands of the West came to be When North America broke free from Eurasia and Africa some 200 million years ago it triggered a cascade of violent geologic events that shaped the West we see today As the west moving continent crunched across the seabed of the ancient Pacific islands and assorted pieces of ocean floor collected against its prow to build California and plant gold there too Meanwhile mountains squeezed upward from California to Colorado and vast quantities of molten rock seeded the crust with precious metals while spewing volcanic fire across the land Later the land stretched like an accordion to form the washboard like Basin and Range province and Great Basin within it while California began to crackle along the San Andreas fault Throughout the West today a near constant drumroll of earthquakes testifies to a world still reshaping itself in response to the ceaseless movements of the Earth s tectonic plates Rough Hewn Land weaves these stories into the human history of the West As we follow the adventures of John C Fr mont Mark Twain the Donner party and other historic characters we see how geologic forces have shaped human experience just as they direct the fate of the West today **The Horn Book Guide to**

Children's and Young Adult Books ,1995 *Holt Earth Science* Mead A. Allison,2006 Investigations Into the Tectonics of the Tibetan Plateau B. C. Burchfiel,Erchie Wang,2008 This volume includes a variety of papers on the tectonics of the Tibetan Plateau and the Iranian Plateau that were presented at the first joint meeting between the Geological Society of America and the Chinese Academy of Sciences Each paper deals with a different aspect of the geology and or the geophysics of the tectonic evolution of the plateau Although most of the papers discuss areas in the northeastern part of the plateau one concentrates on the complexity of the Cenozoic shear zones in Yunnan and one focuses on the late Cenozoic extensional tectonism along the western margin of the Iranian Plateau Several papers discuss aspects of Tibetan tectonics not covered in any other papers and arrive at unique interpretations Publisher s website **The Journal of Education**

,1921 **Historical Geology** Reed Wicander,James Stewart Monroe,2000 HISTORICAL GEOLOGY EVOLUTION OF EARTH AND LIFE THROUGH TIME THIRD EDITION teaches students the basic principles of the physical and biological events of Earth s history as well as how scientists apply these principles to unravel the history of Earth Authors Wicander and Monroe present a balanced overview of both the geological and biological history of the Earth as a continuum of inter related events These events reflect the underlying principles and processes that have shaped our planet The authors also explain the historical development of these basic principles and processes and their importance in deciphering the history of Earth Three major themes time evolutionary theory and plate tectonics are woven throughout the book These themes help readers link

what may seem like unrelated material and are essential for understanding historical geology Included with every new copy of this edition is In TERRA Active tm 2 0 CD ROM Canadian Journal of Earth Sciences ,1980 **Characterization, Prediction and Modelling of the Crustal Present-Day In-Situ Stresses** R. Goteti,T. Finkbeiner,M. O. Ziegler,C. Massiot,2024-08-01 Geomechanics has a marked impact on the safe and sustainable use of the subsurface Along with an ongoing demand for hydrocarbon resources there is also a growing emphasis on sustainable subsurface exploitation and development storage of carbon hydrogen energy and radioactive waste as well as sustainable geothermal resource utilization Such activities are accompanied by an ever increasing need for higher resolution fit for purpose solutions workflows and approaches to constrain present day subsurface stresses and minimize associated uncertainties Building high fidelity geomechanical numerical models provides critical input and understanding for diverse engineering designs and construction as well as geoscience applications Such models greatly contribute towards uncertainty reduction risk management and risk mitigation during the operational life of a given subsurface development and associated infrastructures both on and below the surface This Special Publication contains contributions detailing the latest efforts and perspectives in present day in situ stress characterization prediction and modelling from the borehole to plate tectonic scale There is particular emphasis on the uncertainties that are often associated with data and models **Holt Science and Technology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 **Ate Science Plus 2002 LV Red** Holt Rinehart & Winston,2001-02 Holt Earth Science ,2007 Norsk geologisk tidsskrift ,2005

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