



Activity 4:
Tectonic
movements

Use the Google map

- Look at the boundaries between the plates
- Look at the boundaries between the plates



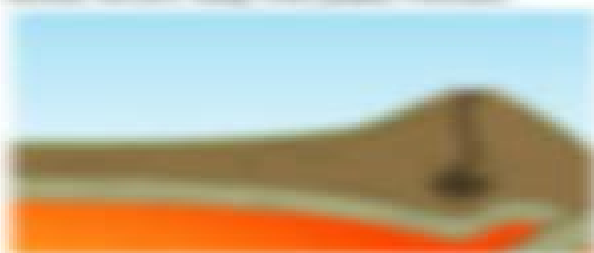
Question: What happens when two tectonic plates meet?

1. **Collision** - Boundaries where two plates move towards each other. When the two plates meet, they can move in different ways. It is called a **collision**. One plate can move faster than the other, or they can move together.

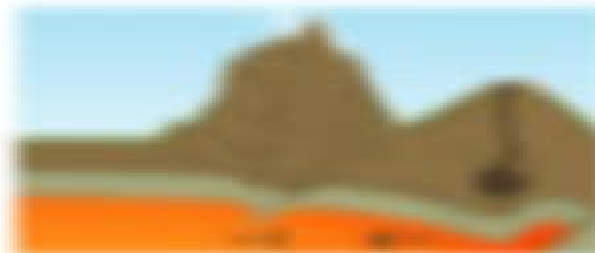
How would you describe the motion of plates in a collision zone?

The plates are colliding together and creating the land to move up - like a mountain range.

2. **Slip** - One plate can move along the plate boundary faster than the other plate moves. One can move faster than the other, or they can move together.



Slip movement



Slip movement

3. **Spreading** - Two or more plates move apart. One plate can move faster than the other plate moves. One can move faster than the other, or they can move together.

Look at the boundaries between the plates on the map.

What happens when two plates move apart?

Answer: When two plates move apart, they create a new plate. This is called a **divergent boundary**. The plates move apart.

Plate Tectonics Gizmo Answer

C Cleary

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'C Cleary' text.

Plate Tectonics Gizmo Answer:

New Scientist, 1973-07 *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 **Plate Tectonics** Eileen Greer, 2016-12-15 Earth's surface is broken up into numerous big pieces called plates Believe it or not these plates are constantly on the move This book explores the exciting earth science topic of plate tectonics Readers will learn about how Earth's plates move and what happens when they collide Full color photographs of the incredible landscape features that are created by plate movement fill the pages and are complimented by helpful diagrams This book covers STEM topics and encourages readers to think like scientists and engineers **Fault Lines & Tectonic Plates** Kathleen M. Reilly, 2017-01-16 The ground beneath your feet is solid right After all how could we build houses and bridges on land if it was moving all the time Actually the ground beneath us really is moving all the time In *Fault Lines and Tectonic Plates Discover What Happens When the Earth's Crust Moves* readers ages 9 through 12 learn what exactly is going on under the dirt The earth's crust is moving constantly but usually it's moving too slowly for us to notice it In *Fault Lines and Tectonic Plates* readers learn about Pangea the giant landmass that scientists believe existed long ago and the tectonic plates that Pangea broke into which we know as continents And what happens when these slowly drifting continents bump up against each other along fault lines Earthquakes volcanoes and tidal waves Readers learn the geological reasons behind earthquakes and also practical ways of behaving in those types of natural disasters In addition to earthquakes tectonic plates create the landscape of our world over time Mountains and trenches are the results of the slow movement of the earth's crust With science minded projects such as a homemade earthquake shake table and edible tectonic boundaries the complex and fascinating topic of plate tectonics is made accessible for kids to grasp helping to raise their awareness about this amazing planet we live on Links to online primary sources and videos make concepts clear and encourage kids to maintain a healthy curiosity in the topic Guided reading levels and Lexile measurements place this title with appropriate audiences The Effectiveness of Teaching from Smaller Concepts to Larger Using Data and Observations in Plate Tectonics Matthew L. Schuchardt, 2010 *The Incredible Plate Tectonics Comic* Kanani K. M. Lee, Adam Wallenta, 2014-09-14 The *Incredible Plate Tectonics Comic* is a wild adventure in earth science Follow Geo and his robot dog Rocky as they travel back in time to Pangea surf a tsunami and escape an erupting volcano all in time for Geo's first period science test The journey starts 200 million years ago and takes you to modern day Hawai i the ocean floor and deep inside the Earth You ll learn How scientists developed the theory of plate tectonics Why the Earth shakes What's in the center of the

Earth How volcanoes can form islands The Incredible Plate Tectonics Comic will teach you about geology in a fun lively and visual way Ages 8 Recommended for grade 6 and up **Plate Tectonics and Continental Drift** John Edwards,2005 This series offers a detailed informative and lively discussion on four of the key areas of physical geography Each book helps develop the knowledge of how specific features of the Earth are formed their causes and effects patterns and processes and our study and understanding of them The series aims not only to answer but also to inspire questions about different environments and landscapes and our relationships with some of the greatest forces of nature we experience on Earth Photographs bring the effects of the subject vividly to life while diagrams enhance the readers practical understanding of the processes that have created the landscapes of the world in which we live today **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, Volcanoes, and Earthquakes** Britannica Educational Publishing,2010-04-01 The devastation wrought by earthquakes and volcanoes often obscures the fact that these destructive forces are also some of the most creative on the planet birthing mountains and other land forms With detailed diagrams outlining the structure of continental and oceanic crust and the distribution of major plate motion this book introduces readers to the range of activity that can shape or decimate an entire region Descriptions of famous earthquakes and volcanoes help contextualize the staggering power of the Earth s motion Plate Tectonics Alvin Silverstein, Virginia B. Silverstein, Laura Silverstein Nunn,2009-01-01 Discusses plate tectonics the theory that the surface of the earth is always moving and the connection of this phenomenon to earthquakes and volcanoes *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 This Dynamic Earth W. Jacquelyne Kious, Robert I. Tilling,1996 Provides a brief introduction to the concept of plate tectonics Highlights some of the people and discoveries that have advanced the development of the theory and traces its progress since its proposal Fully illustrated with extraordinary color photos and maps Chapters historical perspective developing the theory ocean floor mapping magnetic stripping and polar reversals magnetic stripes and isotopic clocks understanding plate motions Hotspots mantle thermal

plumes some unanswered questions plate tectonics and people References 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 Plate Tectonics: Essential Concepts Fernando Morrison, 2021-11-16 Plate tectonics is the scientific theory that explains the large scale movements of various small and large plates present in the lithosphere of the earth The lithosphere is divided into multiple tectonic plates There are seven major and various minor plates such as African Eurasian South American and Indo Australian The point where these plates meet is known as plate boundary Some of its types are transform convergent and divergent The movement of these plates are associated with earthquakes mountain building and volcanic activity The principle on which this field operates is that the lithosphere exists as distinct tectonic plates and depends on the fluid like asthenosphere The movement of these plates is caused by the relative density of the oceanic lithosphere and the relative weakness of the asthenosphere This book is a compilation of chapters that discuss the most vital concepts related to this field Most of the topics introduced herein cover new techniques and applications of this field This book with its detailed analyzes and data will prove immensely beneficial to professionals and students involved in this area at various levels The Tectonic Plates are Moving! Roy Livermore, 2018-03-23 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 bring 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

Plate Tectonics Jonathon S. Erickson, Jon Erickson, 1999 Explains the theory of continental drift and shows how this activity has affected the Earth's geological make up

Earth in Motion R. V. Fodor, 1978 Explains the theory of continental drift presents the supporting evidence and describes how this knowledge is important in locating valuable resources and developing warning systems for earthquakes and volcanoes

Why Do Tectonic Plates Crash and Slip? Geology Book for Kids | Children's Earth Sciences Books Baby Professor, 2017-03-15 Tectonic plates are found deep in the Earth but they affect everything on land and sea When they crash new mountains are formed When they slip valleys are found And when all these happen earthquakes would shake cities and towns Understanding how tectonic plates work would make it easier for children's knowledge on geology to grow

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 Rebecca L. Johnson, 2006-01-01 Explains how volcanoes form why earthquakes happen and what goes on deep inside the earth to make the continents move

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