

Plate Tectonics Study Guide and Practice

NAME _____

Going **DEEP** with PLATE TECTONICS

Study Goals and Practices

How do mountains form? Why do earthquakes happen? What is a volcano, and why does it erupt? Throughout recorded human history there were always questions like these trying to understand how or why these events happened. Sometimes such as these led to a plenty of theories from hundreds of scientists over the past century to find the answers. These answers were found from the collected facts and evidence. There was a theory to explain it all... the Theory of Plate Tectonics!

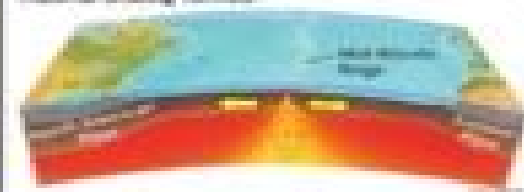
The theory explains Earth in which it major and it minor tectonic plates move about on top of the asthenosphere. Whether they are colliding, dividing, or sliding, these plates are always in motion. Where these plates meet, called "plate boundaries", is where most of the earthquakes and volcanoes on Earth happen.

The Theory of Plate Tectonics understands that the Earth forms new crust at the mid-ocean ridges. This crust begins to move outward to either side of the ridge. As it moves, it is forced below another plate where it is melted back into magma. For now the geological feature, this recycled crust emerges again at a mid-ocean ridge.

What causes the plates to move around? It's very simple really! It's called convection. Think of how boiling water in a pot moves... the hotter water rises up, then, as the water moves to the pot's edge, it is forced back down to the heated part up again. Inside the Earth, instead of circulating water, it is circulating magma.

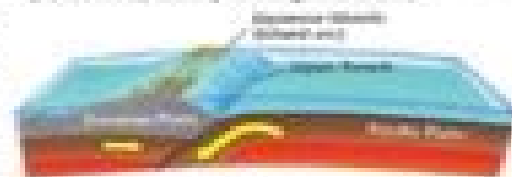
There are THREE types of plate boundaries: Divergent, Convergent, and Transformal! Each of these give rise to new landforms, and can cause many natural disasters.

Divergent Plate Boundaries are where plates are moving away from each other. This movement is found along mid-ocean ridges where new crust material is being formed.



Convergent Plate Boundaries are where one plate subducts under crust that is less dense to be recycled back into the asthenosphere. There are three types of convergent plate boundaries:

- Ocean to Ocean: when the crust of two oceanic plates meet, usually forming island arcs.



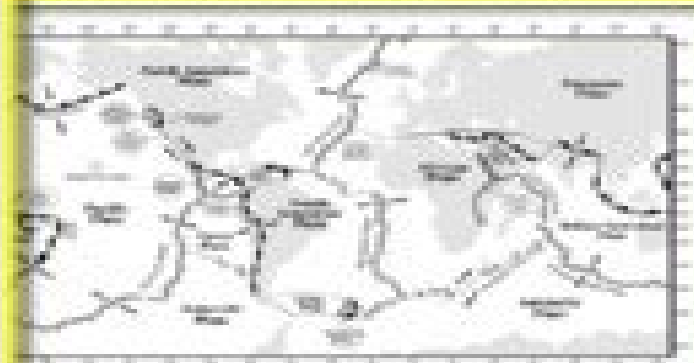
- Ocean to Continental: when oceanic crust subducts under continental crust forming mountains chains and volcanic activity.



- Continental to Continental: when two continental plates meet and buckle up forming large mountains.



Transform Plate Boundaries are when plates move side by side with each other resulting in frequent earthquakes.



Boundary Type	Stress Type
Divergent	Tension
Convergent	Compression
Transform	Shear

Boundary Type	Stress Type
Divergent	Tension
Convergent	Compression
Transform	Shear

4. The type of the Earth provides the fact that creates the continental contents of the mantle and drives the tectonic plates. Describe what would happen as the Earth's core cools deeper over billions of years?

5. What are the different ways in which the tectonic plates interact with each other as they move around?

Plate Tectonics Review Guide Answers

Lydia Mihelic Pulsipher, Alex Pulsipher



Plate Tectonics Review Guide Answers:

Student Study Guide Peter L. Kresan, Reed Mencke, Frank Press, Raymond Siever, 2003-09-25 This reconceptualization of the text Understanding Earth reflects the fundamental changes in the field of physical geology over the past several years

Plate Tectonics Science Learning Guide NewPath Learning, 2014-03-01 The Plate Tectonics Student Learning Guide includes self directed readings easy to follow illustrated explanations guiding questions inquiry based activities a lab investigation key vocabulary review and assessment review questions along with a post test It covers the following standards aligned concepts Earth s Interior Heat Transfer Continental Drift Sea Floor Spreading Theory of Plate Tectonics Plate Tectonic Boundaries Changes in Earth s Surface Volcanoes and Earthquakes Aligned to Next Generation Science Standards NGSS and other state standards

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Pauline E Kneale,2014-04-23 Packed with practical hints study tips short cuts and examples this book is designed to help you throughout your degree Designed for all geography students this guide delves into coping with conflicting time commitments constructing essays dissertations and more Updated and revised throughout this new edition contains a new chapter on Careers and CVs showing how geography can help you develop skills of use to future employers

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Travis Hudson,2016-09-17 For many students with no science background environmental geology may be one of the only science courses they ever take Living With Earth An Introduction to Environmental Geology is ideal for those students fostering a better understanding of how they interact with Earth and how their actions can affect Earth s environmental health The informal reader friendly presentation is organized around a few unifying perspectives how the various Earth systems interact with one another how Earth affects people creating hazards but also providing essential resources and how people affect Earth Greater emphasis is placed on environment and sustainability than on geology unlike other texts on the subject Essential scientific foundations are presented but the ultimate goal is to connect students proactively to their role as stakeholders in Earth s future

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World Regional Geography Mapping Workbook and Study Guide Lydia Mihelic Pulsipher, 2005-02 This study guide and book of mapping exercises was designed to hone student skills in geographic analysis in the context of the main themes of each chapter Mapping exercises are designed to help the students understand and explain geographic patterns through the use of skills geographers would use **Environmental Geology Today** Robert L McConnell, Daniel C Abel, 2013-09-04

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