

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!

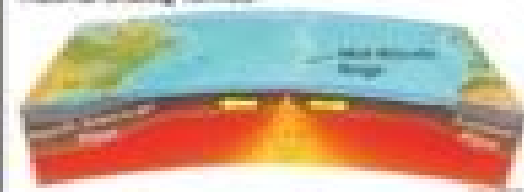
The theory explains Earth in which it major and it minor tectonic plates move about on top of the asthenosphere. Whether they are colliding, dividing, or sliding, these plates are always in motion. Where these plates meet, called "plate boundaries", is where most of the earthquakes and volcanoes on Earth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

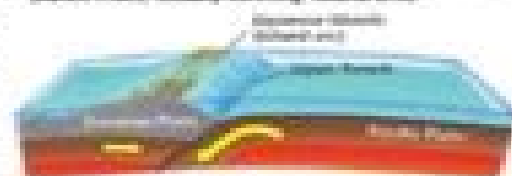
There are THREE types of plate boundaries: Divergent, Convergent, and Transformal! Each of these give rise to new landforms and can cause many natural disasters.

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.



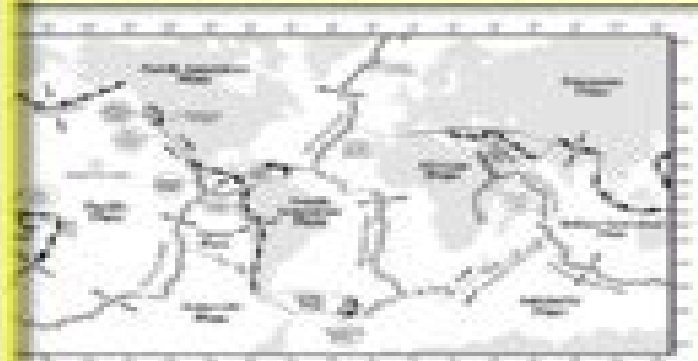
- **Ocean to Continental:** when oceanic crust subducts under continental crust forming mountain chains and volcanic activity.



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



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



Boundary Type	Stress Type
Divergent	Tension
Convergent	Compression
Transform	Shear
Hot Spot	None
Subduction	Compression

Boundary Type	Stress Type
Divergent	Tension
Convergent	Compression
Transform	Shear
Hot Spot	None
Subduction	Compression

4. The type of the fault provides the force that creates the compressional-tensional shear and stress 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?

Theory Of Plate Tectonics Study Guide Answers

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web dec 1 2021 compressive damage variable this parameter is used to define the compression hardening data for the concrete damaged plasticity material model and it can be used to specify the compressive stiffness degradation in the study of ref 26 compressive damage variable d_c is assumed that damage initiates only after the experimentally based parameters applied to concrete damage plasticity - Nov 27 2022

web jul 1 2020 by combining isotropic damage elasticity and isotropic tensile and compressive plasticity it can model nonlinear deformation and irreversible damage in plain concrete materials applied to different types of structures under different load conditions 15 22 23 inspired by this approach many researchers investigated the failures of concrete