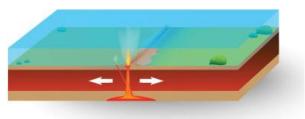
Earth Science 11 Unit 2 – The Geology of Earth Day 3 – Faults & Hot Spots

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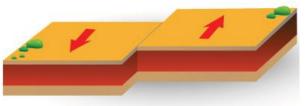


Different types of plate boundaries:

Divergent Plate Boundary: _____

a linear feature that exists between two tectonic plates that are

moving away from each other. Divergent boundaries within continents initially produce rifts, which eventually become rift valleys. Most active divergent plate boundaries occur between oceanic plates and exist as mid-oceanic ridges



Transform Plate Boundary:

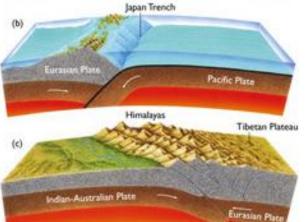
a fault along a plate boundary where
the motion is predominantly horizontal.
It ends abruptly where it connects to another
plate boundary



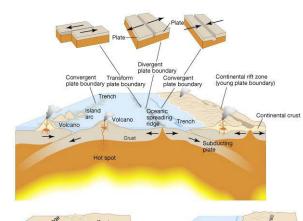


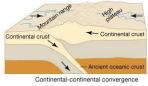
Convergent Plate Boundary: ___

two or more lithospheric plates collide. One plate eventually slides beneath the other, a process known as subduction. The subduction zone can be defined by a plane where many earthquakes occur



lead to volcanism, earthquakes, orogenesis (mountain building)







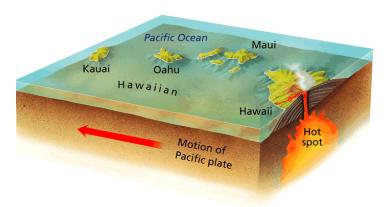
Hot Spot: an area in the mantle from which heat rises as a thermal plume from deep in the Earth

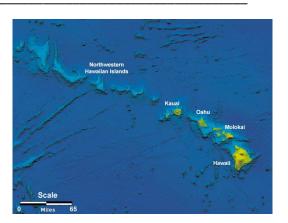
Molten material rises in the center of a plate

Example is Hawaii

Hotspot does not move

Plate moves





describes continental movement and gives a possible explanation of why and how continents move

Tectonics is the study of the formation of features in the earth's crust

