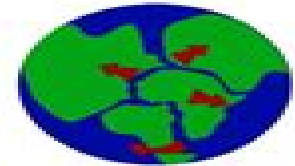


Unit 4 Earth Systems APES Exam Review

Plate Tectonics

1) What are the four layers of the Earth? Describe the composition of each layer.

1. Inner Core- Innermost layer, composed of mostly iron and nickel, extremely dense
2. Outer Core- This part of the core is also made from iron and nickel, just in liquid form
3. Mantle- The thickest layer of Earth above the core containing magma
 - a. Contains the asthenosphere which is the outer part of the mantle, composed of semi-molten, ductile rock
4. Crust- It is extremely thin, cold and brittle compared to what lies below it. The crust is made of relatively light elements, especially silica, aluminum and oxygen.
 - a. Another name is the lithosphere



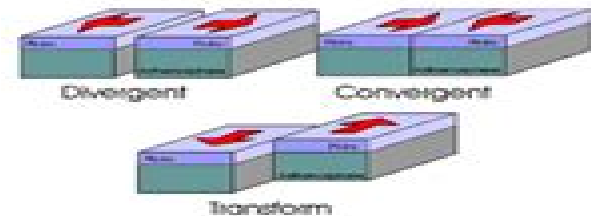
2) Compare and contrast continental and oceanic crust.

Both the continental and oceanic crust float on top of the mantle. Continental crust is less dense than oceanic crust, though it is considerably thicker; mostly 35 to 40 km versus the average oceanic thickness of around 7-10 km.

3) Compare a divergent with a convergent plate boundary.

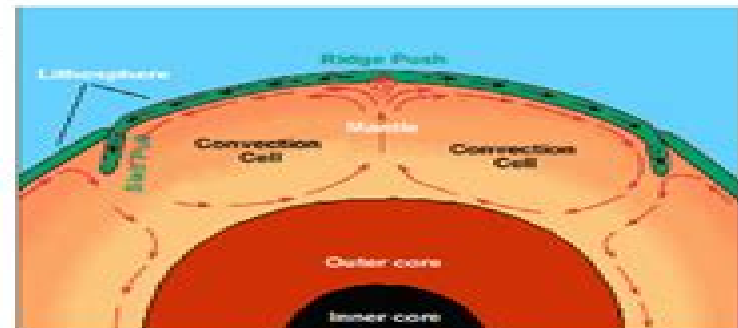
Divergent boundaries are boundaries where plates pull away from each other, forming mild earthquakes and volcanoes as magma comes to the surface.

Convergent boundaries are boundaries where two plates are pushing into each other.



4) Why are plates moving? Draw a diagram with the explanation.

Plates at our planet's surface move because of the intense heat in the Earth's core that causes molten rock in the mantle layer to move. moves in a pattern called a convection cell that forms when warm material rises, cools, and eventually sinks down. As the cooled material sinks down, it is warmed and rises again.



8 Ap Earth Answer Key

James Zucker



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