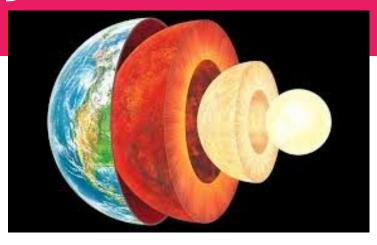
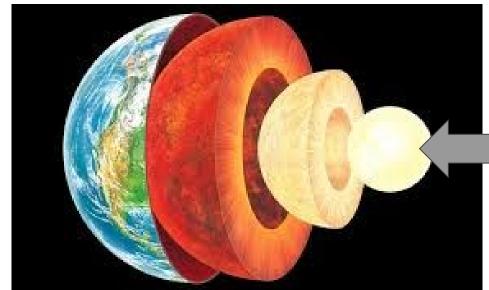
Layers Vocab #1



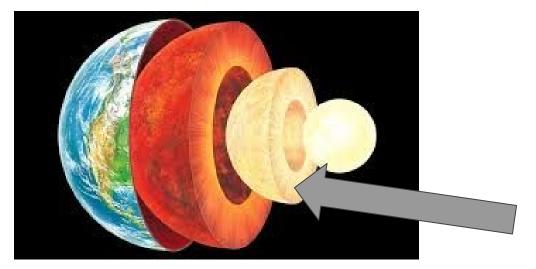
Inner Core

- -Ball of hot, solid metal at Earth's center
- -Very high pressure causes it to be solid



Outer Core

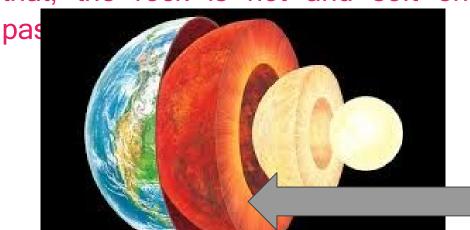
- -Layer of liquid metal surrounding the inner core
- -Less pressure and lower temperature than inner core



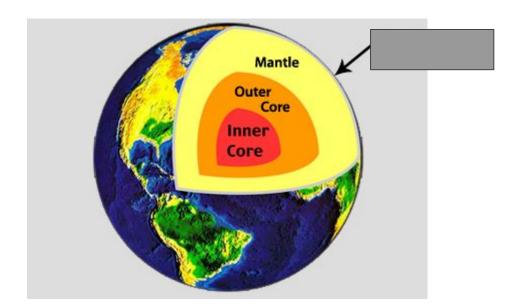
Mantle

-Thickest layer of Earth made up of hot rock; less dense than core

-Uppermost part of mantle is cool and rigid. Just below that, the rock is hot and soft enough to move like a thick



Crust



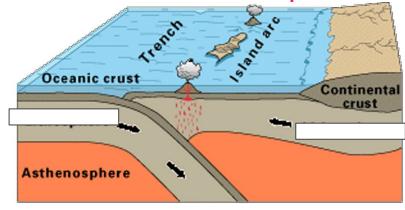
- -Thin layer of cool rock that surrounds Earth like an eggshell; 2 types
- Continental crust includes all continents (less dense; mostly composed of granite)
- Oceanic includes all the ocean floors(more dense; mostly composed of basalt)

Lithosphere

-Made up of the crust and the cool, rigid part of the upper mantle.

-It is broken into tectonic plates and sits on top of the

asthenosphere

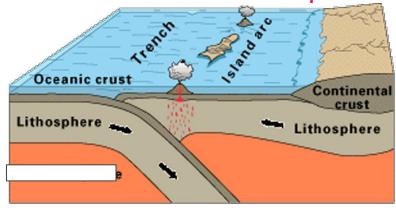


Lithospheric Plates

Asthenosphere

-Layer of hotter, softer rock in Earth's upper mantle; flows like tar

-Lithosphere (tectonic plates) sits on the asthenosphere



Lithospheric Plates

Relative Position

The location of something in comparison to its surroundings

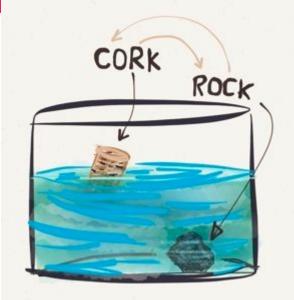
Composition

The makeup of a substance; the composition of carbon dioxide (CO_2) is one carbon atom and 2 oxygen atoms

Density

-The amount of "stuff" present (mass) in a certain amount

of space (volume); Density = Mass/Voluma



Convection Currents

- -Convection = heat transfer by the movement of fluids
- -Hot, soft rock in the asthenosphere and the lower mantle move by convection.
- -Hotter, less dense rock rises. Cooler, denser rock sinks back down, only to be heated and rise again

