

Layers of the Earth

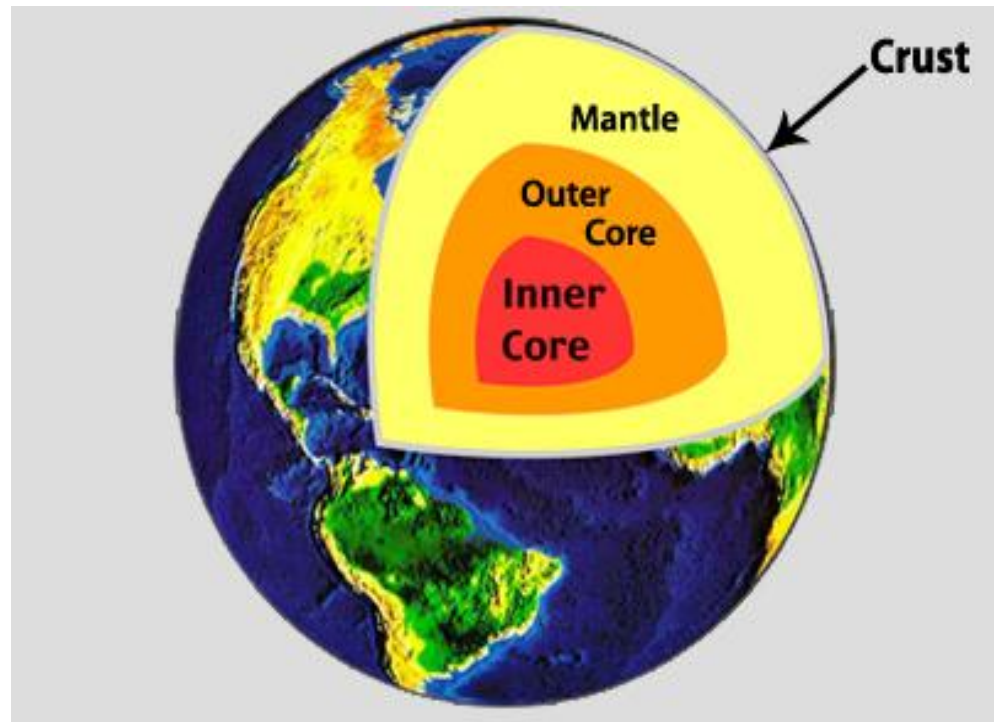


Objective

- To learn the various layers of the Earth and to see models of what each layer looks like.

Crust

- The Earth's outer layer of rock covered by a thin layer of soil. From 5-20 miles thick



Types of Crust

Continents

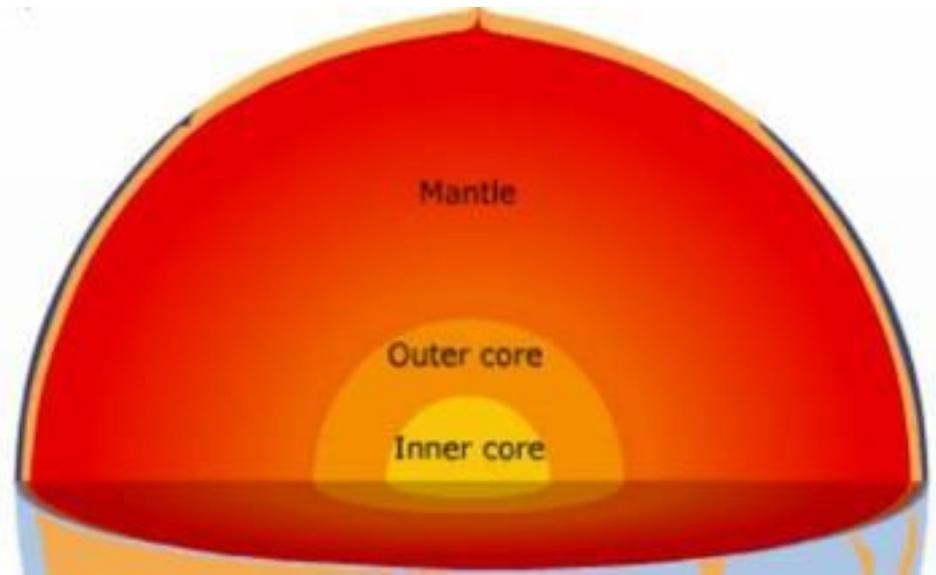
- Thicker layer of crust that floats higher. Made of Granite

Below the Ocean

- Thinner layer of crust, floats lower. Made of Basalt.

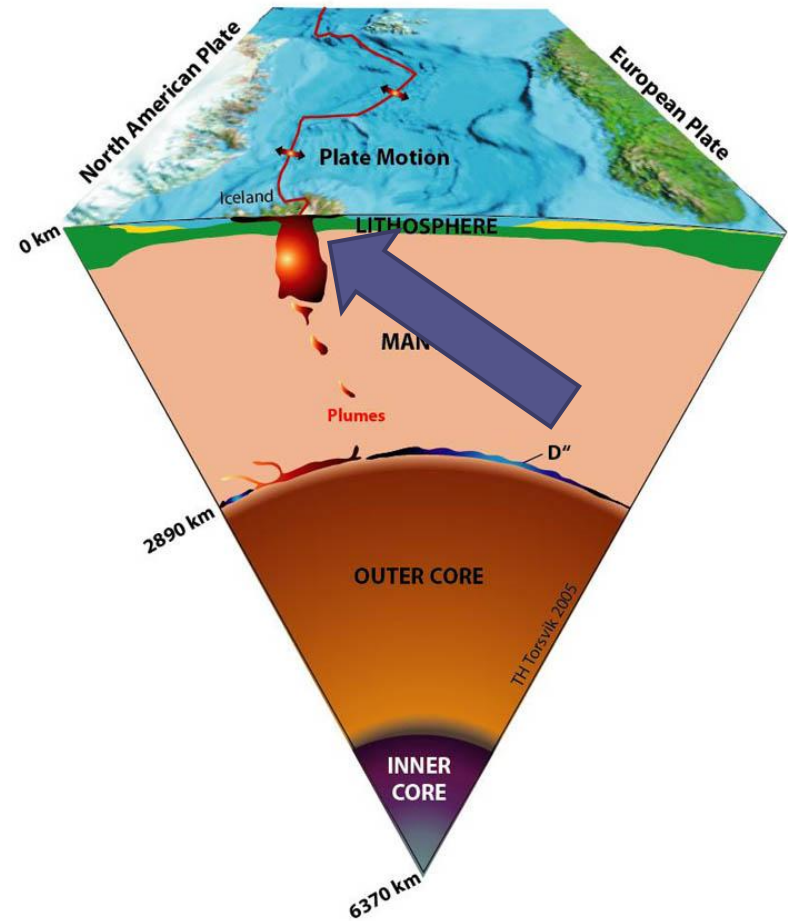
Mantle

- Next layer under the crust: Solid rock except for the part next to the core, where it is liquid rock.



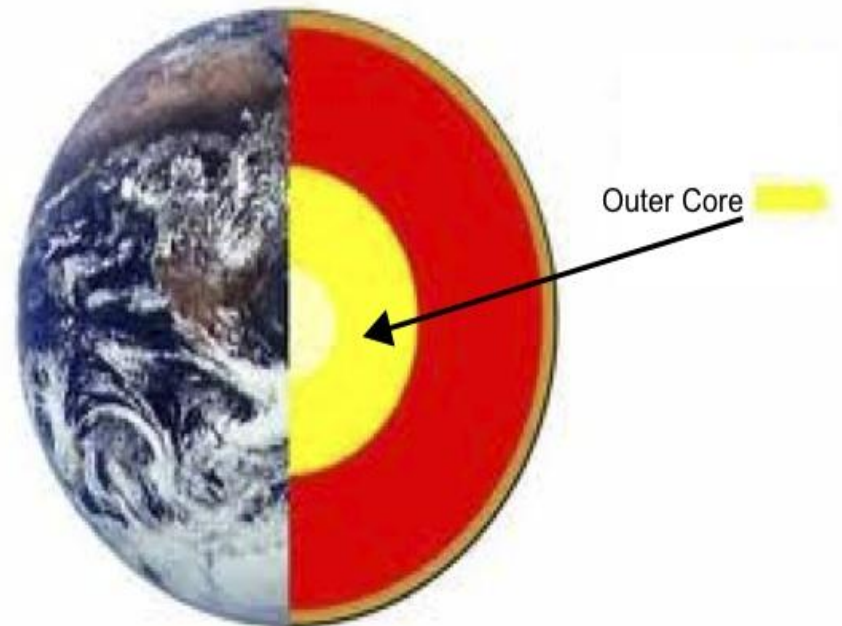
Moho

- The boundary between the crust and mantle made up of liquid rock. (Magma)



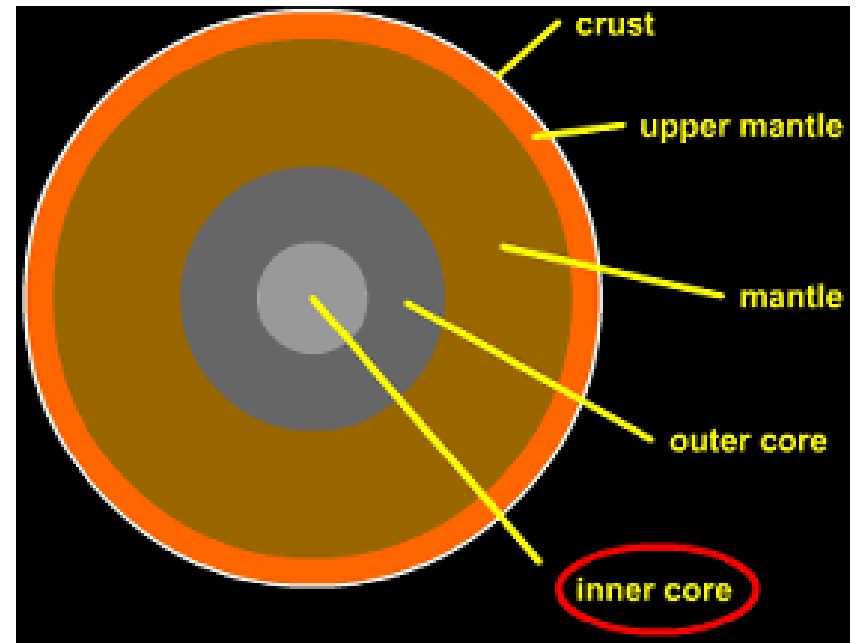
Outer Core

- made up of liquid rock. Separates the mantle and inner core. Constantly churning liquid rock. Nickel and iron.



Inner Core

- Made up of solid iron and nickel under tremendous pressure. About 9000 F in the center. Oven at home is 600 F.



Oceanic Plate

3-5 miles thick

5-25 miles thick

Continental Plate



1800 miles thick

Mantle

(Flows with the consistency of asphalt)

1400 miles Thick

Outer Core

(Iron and nickel in the liquid state)

800 miles thick

Inner Core

(Iron and nickel in the solid state)

Diagram Not drawn to scale