|  |  |  |  |
| --- | --- | --- | --- |
| **Layer** | **Thickness (km)** | **Composition + State** | **Density** |
| Crust | Oceanic crust = 10 km  Continental Crust = 40 km | Solid silicate rock | 2.6 g/cm3 |
| Lithosphere | 100 km | Solid rock | 3.2 g/cm3 |
| Asthenosphere | 300 km | Partially melted; flows over time | 3.25 g/cm3 |
| Lower Mantle | 2400 km | Solid Silicate Rock | 5.0 g/cm3 |
| Outer Core | 2200 km | Liquid molten iron | 11.5 g/cm3 |
| Inner Core | 1200 km | Solid iron-nickel | 25.9 g/cm3 |

**CONVECTION!**

Convection is the transfer of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ due to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as magma heats up and rises, then cools down and sinks. Moves the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_!

**DENSITY:**

Draw the particles based on density in each box.

*COLD*:

*HOT*:

Hotter objects are \_\_\_\_\_\_\_\_\_\_\_\_ dense and colder objects are \_\_\_\_\_\_\_\_\_ dense.

**Layers of the Earth**

You must label your diagram with the following vocabulary words:

Inner Core Continental Crust

Outer Core Oceanic Crust

Upper Mantle Middle Mantle

Crust Lower Mantle

Lithosphere Convection Currents

Asthenosphere Mantle

Must include the appropriate thickness, composition & density from the table above.