

Inside Earth 1.2 Convection and the Mantle

Types of Heat Transfer

There are three types of heat transfer...

1) Radiation

-Energy is transferred through space.

Example: Sunlight

2) Conduction

-Energy is transferred within or between two objects.

Example: Stove top to pan

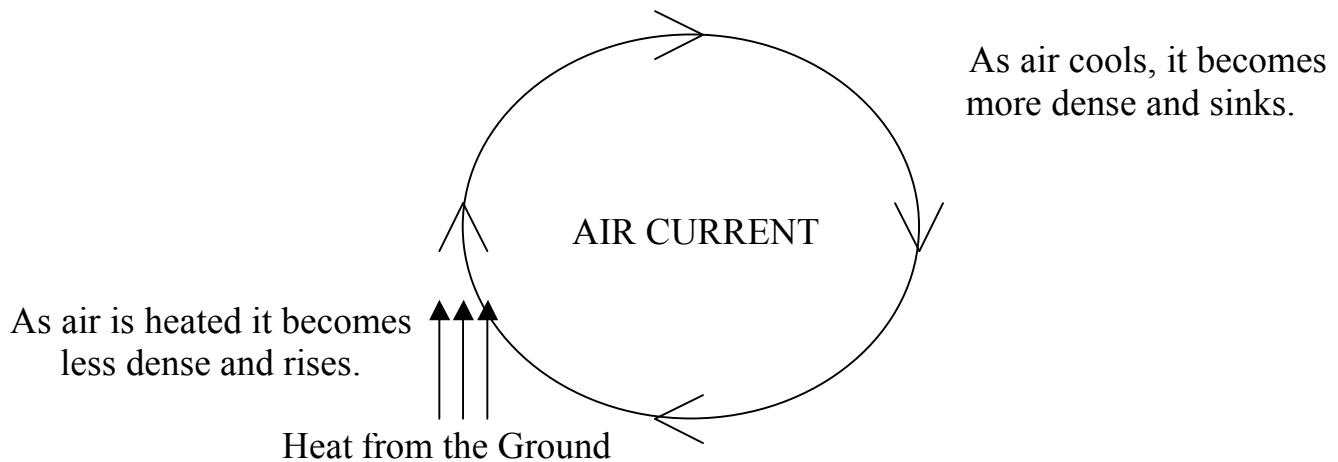
3) Convection

-Energy is transferred by the movement of fluids due to differences in the density of the fluid.

Example: Hot air rises as cool air sinks forming a current.

Convection Currents

Convection currents form as a fluid's density changes.



Density is the measure of how much matter there is in a given volume of substance.

Convection Currents in Earth

Heat from the core and the mantle cause convection currents in the mantle.