

Convection Notes (pg. 14-17)

HW

Name _____

Date _____

Period _____

Convection and the Mantle

1) What is heat transfer?

Types of Heat Transfer

2) Heat always moves from

_____ substances → _____ substances

3) There are 3 types of heat transfer. Define AND give an example of each:

A) Radiation-

Example:

B) Conduction-

Example:

C) Convection-

Example:

Convection Currents

4) Define: Convection Current-

5) The three things that cause convection currents are:

1. _____ and _____ of the liquid

2. Changes in the fluid's _____

3. The force of _____

6) Convection currents will continue as long as there is _____.

Convection Currents in Earth

In the Mantle...

7) The heat that makes convection currents comes from the _____
and the _____ itself.

8) Over millions of years, the rock in the mantle actually flows, even though it is
a _____
(state of matter)