Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Inside Earth WebQuest: Worksheet**

**Go to: https://sites.google.com/site/mrdearthscience/unit-3-tectonics/plate-tectonics**

**Part 1: Earth's Interior**

**Compositional Layers:**

How is Earth’s interior like an apple?

How much of the Earth’s total mass does the crust make up?

What causes the mantle to "flow"?

What is responsible for the earth’s magnetic field? How does the magnetic field protect us?

Describe in your own words how the earth's layers were formed.  (multiple sentences)

**Structural Layers:**

What is the Lithosphere and describe its characteristics?

What is the Asthenosphere and describe its characteristics?

What is the Mesosphere (or Mantle) and describe its characteristics?

Describe differences in characteristics between the Outer Core and Inner Core?

**Part 2: Convection Currents and the Mantle**

How is heat transferred by conduction?

Explain the process of convection.

How is heat transferred by radiation?

If air is a fluid, why isn’t convection responsible for transferring heat to Earth from the sun?

Test your knowledge! Scroll down to the bottom of the Heat Transfer Web page and take the "Mini Quiz".

Describe how convection currents occur in Earth's mantle.

Make a drawing of the Earth’s interior and diagram convection currents occurring.