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***Study Guide for Earth’s Layers Quiz***

**Goal MS-ESS2-1: I can develop a model to describe the cycling of Earth’s materials and the flow of energy that drives this process.**

Check your drawing of Earth’s layers and your flip book in your science journal. Be able to pick out the crust, mantle, lithosphere, asthenosphere, inner core, outer core, and convection cells.

1. What is the core made of?

**The core is made of mainly nickel and iron.**

1. What is the difference between the inner core and the outer core?

**The difference between the inner core and the outer core is that the inner core is a solid and the outer core is a liquid. Both are made of iron and nickel.**

1. What happens to the temperature of the Earth as you travel from the crust to the core?

**As you travel from the crust to the core the temperature of the Earth increases from surface temperatures to a high of 7,2000C in the inner core.**

1. Put the layers of Earth in order from the coolest to the warmest.

**From the coolest to the warmest the layers of Earth are crust, mantle, outer core, and inner core. The lithosphere and asthenosphere are part of the mantle near the crust.**

1. Where does the heat contained in Earth’s inner core come from?

**The heat contained within the Earth’s inner core is a result of when the Earth was formed and compacted under great pressure.**

1. What are the two types of lithospheric plates?

**The two types of lithospheric plates are continental and oceanic plates.**

1. What do we call the rising and falling of heat within the Earth’s mantle?

**The rising and falling of heat within the Earth’s mantle is called convetion or convection cells.**

1. ON THE BACK OF THIS PAPER. Draw and label the crust, mantle, lithosphere, asthenosphere, inner core, and outer core. Include arrows showing the rising and falling of heat within the mantle.