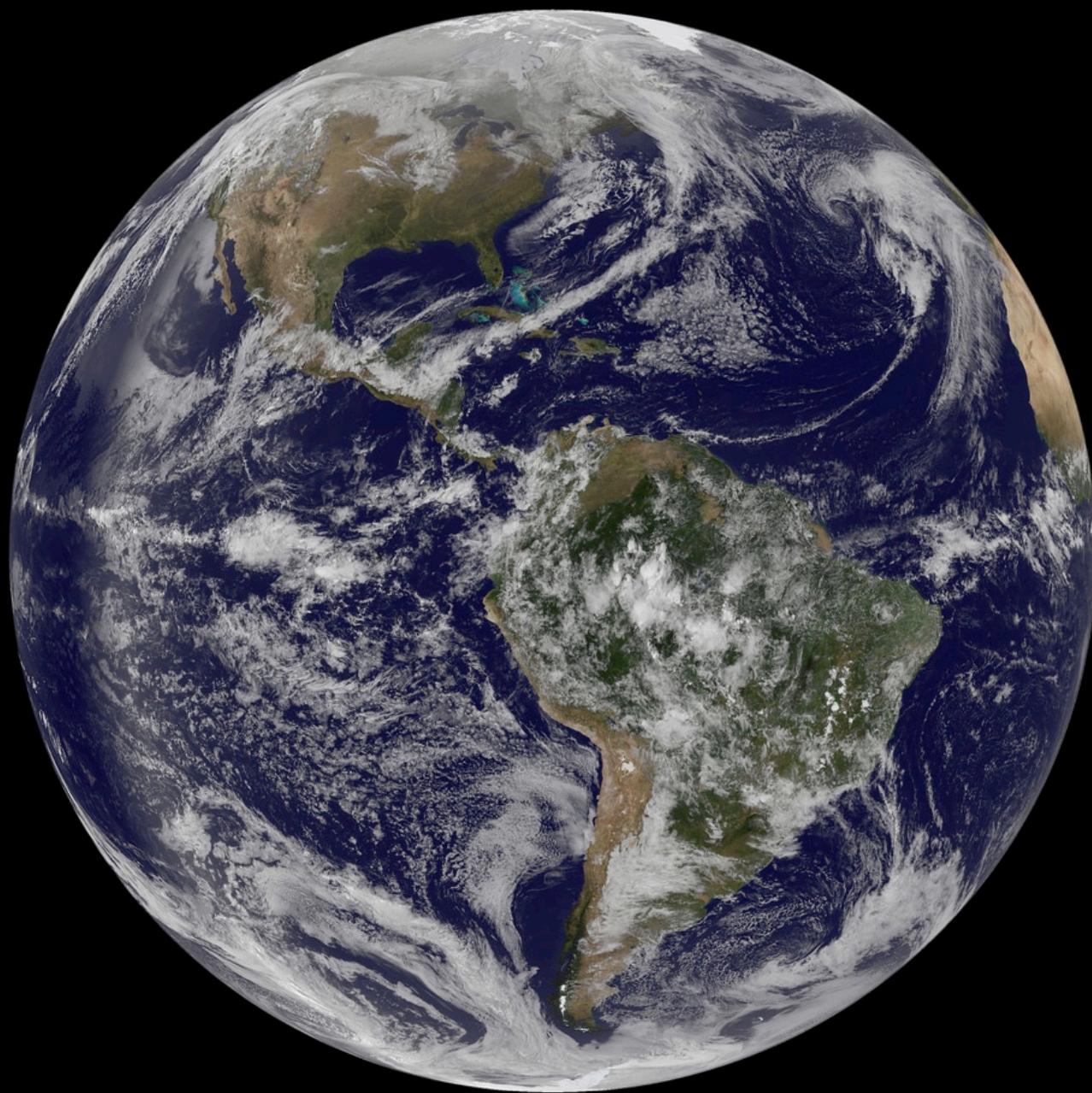
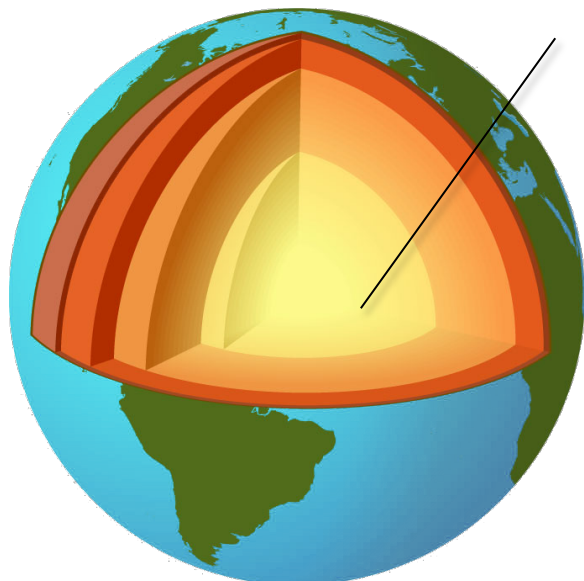


What's Inside the Earth?



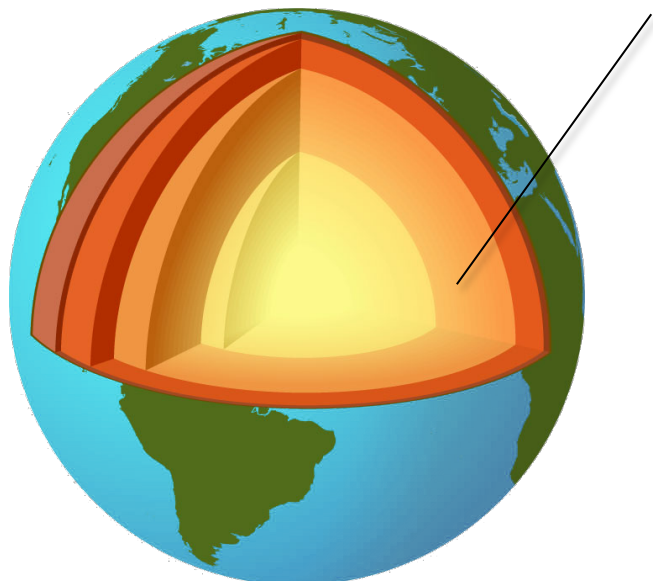
Name _____

- **How Hot is the Inner Core?**
 - 9,302°F – 10,832°F [5,000°C – 6,000°C]
- **What is the State of the Inner Core?**
 - Liquid
- **What is the Composition of the Inner Core?**
 - Iron & Nickel
- **How Many Miles to the Inner Core?**
 - 3, 200 – 3,900 miles
- **Fun Facts!**
 - The hottest part of the Earth; the inner core is so hot it can melt metal.
 - There is a lot of pressure surrounding the inner core, which also contributes to a liquid composition.



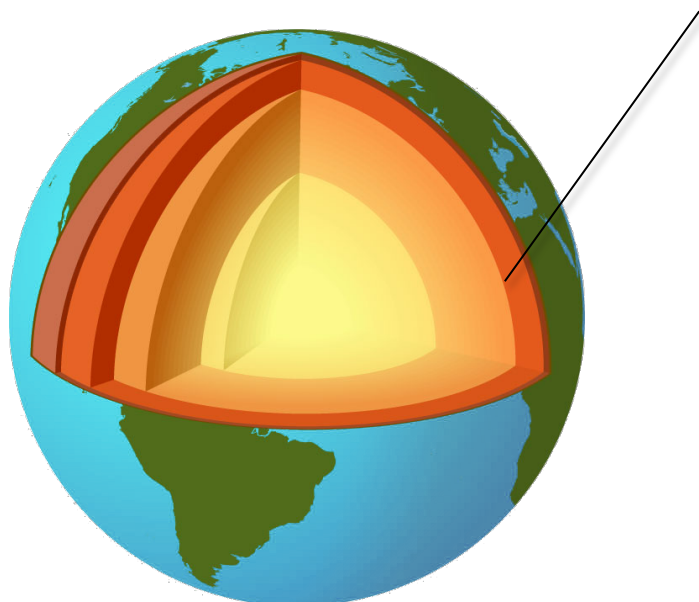
The Inner Core

- **How Hot is the Outer Core?**
 - 7,232°F – 10,832°F [4,000°C – 6,000°C]
- **What is the State of the Outer Core?**
 - Liquid
- **What is the Composition of the Outer Core?**
 - Iron, Nickel, Sulfur, & Oxygen
- **How Many Miles to the Outer Core?**
 - 1, 800 – 3, 200 miles
- **Fun Facts!**
 - The outer core flows around Earth's center.
 - Without the inner core, we wouldn't have magnetic fields.



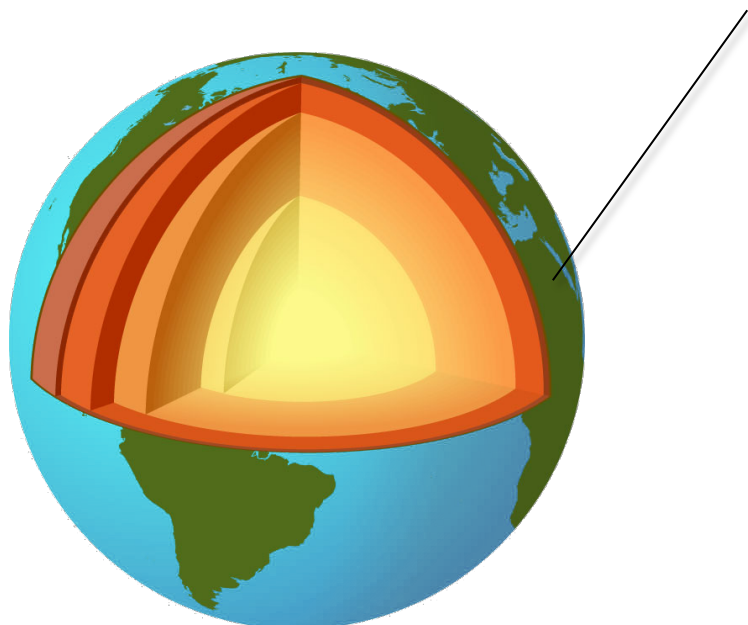
The Outer Core

- **How Hot is the Mantle?**
 - Lower Mantle: 5,432°F [3,000°C]
 - Upper Mantle: 2,553°F – 5,432°F [1,400°C - 3,000°C]
- **What is the State of the Mantle?**
 - Lower Mantle: Solid
 - Upper Mantle: Solid & Liquid
- **What is the Composition of the Mantle?**
 - Lower Mantle: Iron, Oxygen, Silicon, Magnesium, & Aluminum
 - Upper Mantle: Iron, Oxygen, Silicon, Magnesium, & Aluminum
- **How Many Miles to the Mantle?**
 - 25 miles – 1,800 miles [40 kilometers – 69 kilometers]
- **Fun Facts!**
 - The mantle is hot enough the rock can melt. However, due to the amount of pressure, the rock stays solid.
 - The upper mantle is much cooler, which is why the composition is both solid and liquid.



The Mantle

- **How Hot is the Crust?**
 - 71.6°F [22°C]
- **What is the State of the Crust?**
 - Solid
- **What is the Composition of the Crust?**
 - Oceanic Crust: Iron, Oxygen, Silicon, Magnesium, & Aluminum
 - Continental Crust: Granite, Sedimentary Rocks, & Metamorphic Rocks
- **How Wide is the Crust?**
 - 4 miles - 43 miles [6 kilometers – 69 kilometers]
- **Fun Facts!**
 - Also known as the Earth's surface—where we live!
 - Made up of two different types of crust: continental (land) and oceanic (located beneath the ocean floor).
 - Thinnest of all the layers and the only layer that can be studied by scientists.



The Crust

Tectonic Plates

- **Tectonic Plates:** combination of the outer mantle and the crust.
- Another name for **tectonic plates** is **lithosphere**.
- Tectonic plates move very slowly—about an inch a year.
- **Fault:** where two tectonic plates touch
- When the tectonic plates move and hit into each other, an earthquake occurs.

