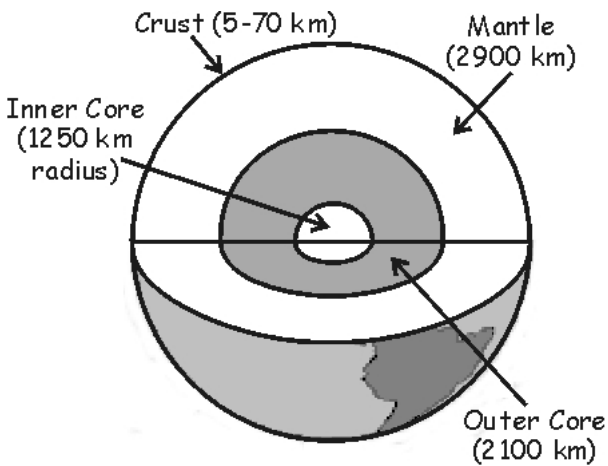


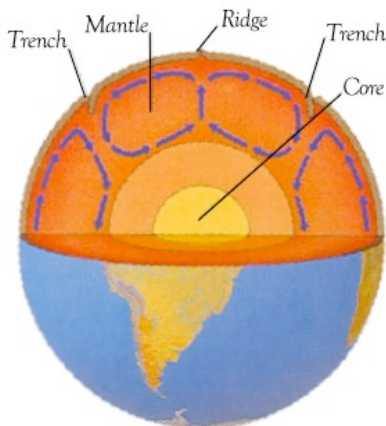
I. The earth is divided into _____ main layers based on composition and state of matter.



- A. **Inner Core**- _____ - It is very hot, but it is a **solid** because it is under so much pressure from all of the layers above it. Made of _____ - very dense metal
- B. **Outer Core**- _____ - Made of Iron and Nickel
- C. **Mantle**- _____ - peanut butter-like consistency. It can flow and move, but is almost solid in places. Made of lighter elements. _____ occur in the mantle.
- D. **Crust**- _____. We live on the crust. Made of mostly _____.
Made up of rocks and sediments. Divided into _____ that move around on the mantle.

II. Convection in the Mantle

- A. Since the mantle is slushy like a thick liquid, the material can flow. _____ cause the material to move around.
- B. **Convection Current**- when material is heated, it becomes _____ and rises. Then it cools, becomes _____ and sinks again.

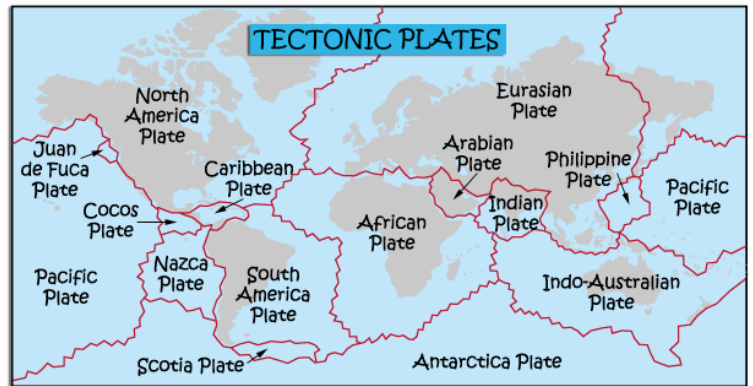
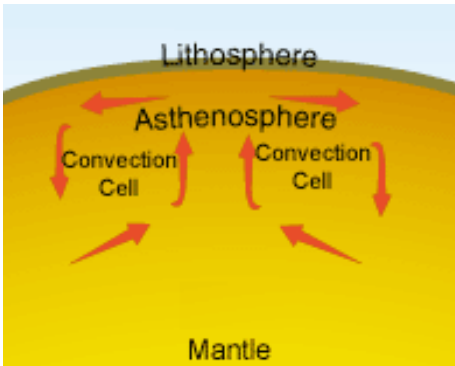


III. Plate Tectonics

A. The solid, outer part of the crust and upper mantle is called the _____.

B. The **lithosphere** floats on the liquid-like part of the mantle, which is called the _____.

- The lithosphere is broken into sections called _____. The plates get carried along as the asthenosphere moves due to _____, like a raft in a river.



IV. Alfred Wegener

A. Alfred Wegener believed the crust of the earth moved as early as the 1800s, but he couldn't explain what made them move. He called his idea _____.

He thought the **plates moved because of 4 reasons:**

#1- The _____ of the continents look like **they fit together like a puzzle.**

_____ - **supercontinent** when all the continents joined together.

#2. _____ on **continents beside each other match up.**

#3. _____ types and _____ on continents beside each other **match up.**

#4. Warm _____ **fossils are found in Antarctica**, and there is evidence of _____ in places that are now tropical. **A possible explanation is the continents moved.**

Questions:

1. **How many layers** is Earth divided into? _____

2. A _____ forms **when all continents are joined together.**

3. What is the name of **Earth's last super-continent?** _____

3. What **action in the mantle** causes the Oceanic and Continental plates to move? _____

4. In a **convection current**, _____ rises while _____ sinks.