# **Geology II**

Name: Date: Block:

- 1. Layers of the Earth
- 2. Plate Tectonics Theory
- 3. Convection Currents

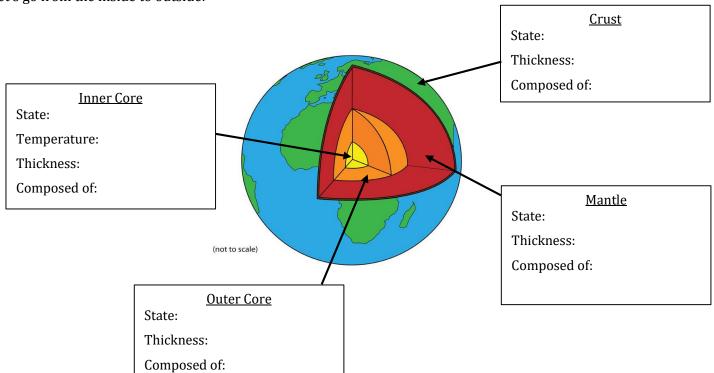
•	Scientists believe that Earth began as a		
	over billion years ago		
•	As Earth cooled, the (		
	materials floated to the surface and the		
	() materials sank toward the	Sept 1	



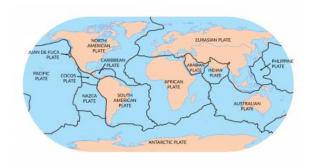
### Layers of the Earth

interior.

Let's go from the inside to outside:



#### **Plate Tectonic Theory**

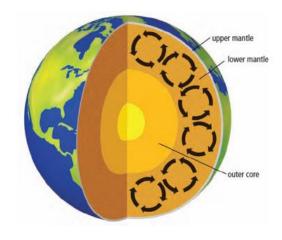


- Earth's outer layer is comprised of several large, rigid but mobile chunks called \_\_\_\_\_
- There are \_\_\_\_\_\_ tectonic plates that make up the crust.
- Divided into:

0

0

#### **Convection Currents**

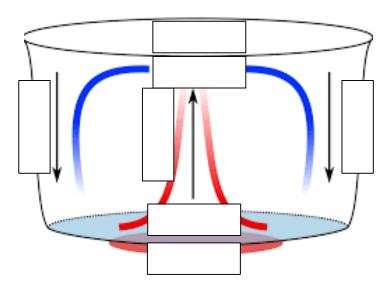


- 1. The \_\_\_\_\_\_ in the mantle closest to the hot core is \_\_\_\_\_ which makes it \_\_\_\_\_ dense.
- 2. This low-density fluid \_\_\_\_\_ towards the crust where it is
- 3. The \_\_\_\_\_ liquid is now \_\_\_\_\_ dense and \_\_\_\_\_ again where it is \_\_\_\_\_.
- This cycle continues and creates what we call a

• This convection is the \_\_\_\_\_\_ behind plate movement.

Fill in the following diagram with the words from the word bank.

- Cold region
- Hot region
- Liquid rising
- Liquid sinking (x2)
- High density liquid
- Low density liquid



## **Summary Questions**

1.	Compare the Earth to an avocado. What are the similarities and differences?		
	Similarities:	Differences:	
2.	How does the state (solid, liquid, gas) of the mantle affect answer.	t plate movement? Include a diagram in your	
3.	How would the Earth be different if the mantle was a so	lid?	
4.	How would the Earth be affected if the core cooled dow	n?	
5.	Create a foldable of the Earth's layers. Label each layer at (thickness, characteristic, state etc.)	nd include a thorough description of each layer	