

# Plate Tectonics

- What is the Theory of Continental Drift? What evidence supports this theory?

The Theory	The Evidence

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The Theory	The Evidence

- How do oceanic and continental crust compare with regard to thickness and density?

	continental	oceanic
density		
thickness		

- What are the primary rocks which make up the continental and oceanic crusts?

continental crust	oceanic crust
Low-density, light-colored, coarse-grained, felsic, igneous rock	High density, dark-colored, fine-grained, mafic, igneous rock

# Tectonic Plates Chart

1. Label the following :

*oceanic / continental*

(convergent  
divergent  
transform)

Plates	Type of Crust	Boundary Type
Eurasian and Pacific	<i>Continent - ocean</i>	<i>Convergent</i>
Pacific and North American		
Scotia and Antarctic	<i>ocean - continent</i>	<i>Transform</i>
South American and African	<i>Continent - continent</i>	<i>Divergent</i>
Nazca and South American		
Cocos and Caribbean		
Eurasian and Indian/Aust.		
Antarctic and Indian/Aust.		
African and Arabian		
Pacific and Antarctic		

2. What type of crust (oceanic or <sup>*continental*</sup>~~basaltic~~) would be the overriding plate?
3. What type of crust (oceanic or <sup>*continental*</sup>~~basaltic~~) would be the subducting plate?
4. How many hot spots are on the map? \_\_\_\_\_
5. What is the latitude and longitude of the galapagos hotspot? \_\_\_\_\_
6. What type of plate boundary is the East African Rift? \_\_\_\_\_
7. What type of plate boundary is the San Andreas Fault? \_\_\_\_\_
8. What type of plate boundary is the Aleutian Trench? \_\_\_\_\_
9. What type of plate boundary is the Mid Atlantic Ridge? \_\_\_\_\_
10. What type of boundary is a trench found at? \_\_\_\_\_
11. What type of boundary is a ridge found at? \_\_\_\_\_
12. What mountain range is located at northern part of India? \_\_\_\_\_
13. What is happening to the size of Iceland? \_\_\_\_\_
14. What process forces one plate to slide under the other? \_\_\_\_\_