Continental Drift and Plate Tectonics Webquest:		
Name	Date	Period
Part A: Continental Drift  Type this web address in the address win <a href="http://www.enchantedlearning.com/s">http://www.enchantedlearning.com/s</a>		
a. What does the Theory of Contine	ental Drift state?	
b. What is the name of the scientist	that proposed the Theory	of Continental Drift?
c. What was Pangaea?		
d. What are the names of the two co	ontinents that Pangaea sep	parated into?
1. Type the following website into <a href="http://library.thinkquest.org/17701/h">http://library.thinkquest.org/17701/h</a>		ternet Explorer.
It has been proven that the Earth's present seen from:	nt continents were once to	ogether as a Pangaea as
1		
2		
3		
4		

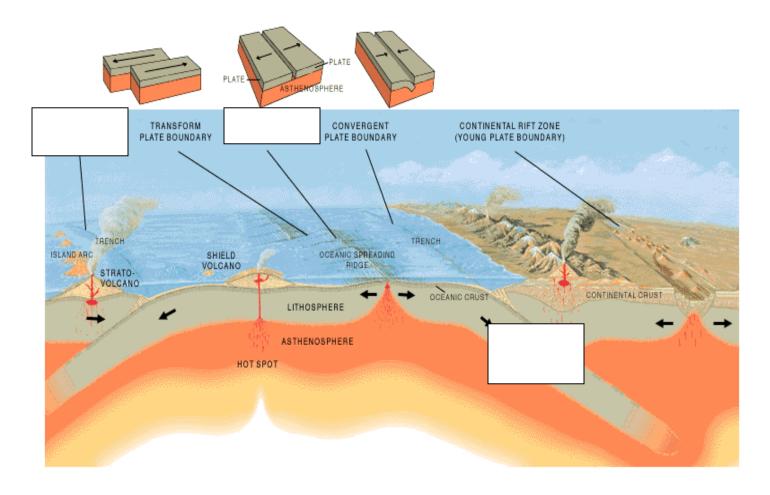
	e" icon at the bottom of the page to advance one at a time, through the is to answer these questions.
	How do the continental coastlines support the Theory of Continental Drift (Pangaea Theory)?
b. I	Explain how fossil distribution supports the Theory of Continental drift.
c. I	How do distinctive rock strata support the Theory of Continental Drift?
d. I	How does coal distribution support the Theory of Continental Drift?
	ection Current website into the address window of Internet Explorer: no.oregonstate.edu/education/vwlessons/lessons/Earths_layers/Earths_lay
2. What are	e convection currents?

3. In which of Earth's layers do convection currents happen?

4.	When convection currents flow in the mantle, they also move the
t C	: Plate Tectonics
•	be this website into the address window of Internet Explorer: b://pubs.usgs.gov/gip/dynamic/dynamic.html
Cli	ck on the "Historical Perspective" icon on this website.
1.	What is a "plate" in geological terms?
2	Wilest describe Theory of Dista Testavian 1444.9
2.	What does the Theory of Plate Tectonics state?
3.	What is the name of the theory that led to the development of the Theory of Plate Tectonics?
4.	Click the back arrow of Internet Explorer to return to the homepage of
	http://pubs.usgs.gov/gip/dynamic/dynamic.html : Click on the "Understanding Plate Motions" icon on this website.
5.	What are the four types of plate boundaries?  a
	b
	c
	d

# Click on Illustration of the Main Types of Plate Boundaries [55 k]

Label the diagram below



# Finish the following sentence.

Divergent bound	laries occur along spreading centers	where
	are moving	and new crust is
created by	pushing up from the	e

#### Click on the link: Mid-Atlantic Ridge [26 k]

1. What is shown in this picture? What type of plate boundary is it? Where is it located?

#### Part E: Plate Tectonics: Types of Boundaries: Convergent Boundaries Scroll down to: Convergent Boundaries.

1.	What is the location where sinking	ig of a plate occurs is called?

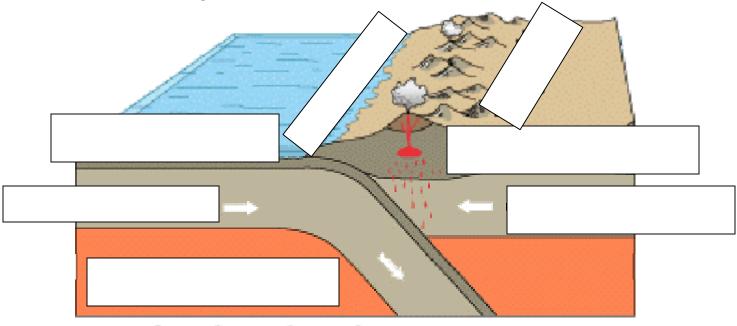
2. The type of convergence -- called by some a very slow "collision" -- that takes place between plates depends on the kind of lithosphere involved. Convergence can occur between what types of plates?

a)	

- b) \_\_\_\_\_
- c) \_\_\_\_\_

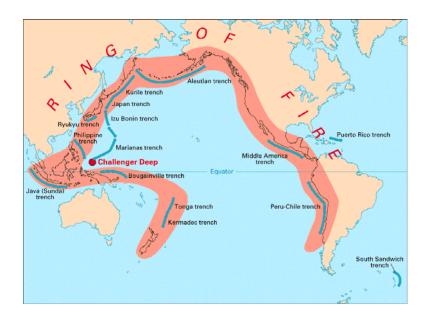
#### Scroll down to: Oceanic-continental convergence

- 3. Off the coast of South America along the Peru-Chile trench, the oceanic Nazca Plate is pushing into and being subducted under the continental part of the South American Plate creating what?
- 4. Look at the diagram under the Oceanic-continental convergence information: Label diagram.



Oceanic-continental convergence

## Click on the Ring of Fire [76 k]



- 5. What is the ring of fire?
- 6. The Ring of fire results in frequent what?
- 7. The West coast of the United States has frequent volcanoes, use the ring of fire to explain why.

## Part E: Plate Tectonics: Types of Boundaries: Convergent Boundaries continued

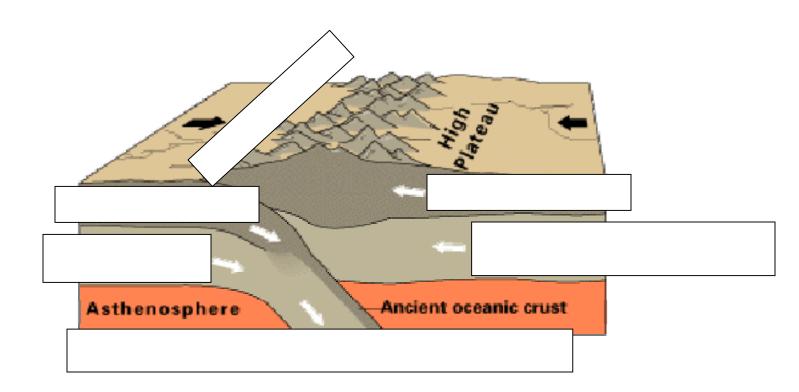
## Scroll down to: Oceanic-Oceanic convergence

1. When two oceanic plates converge, one is usually subducted under the other what is formed?

## Scroll down to: Continental-continental convergence

- 2. What mountain range demonstrates one of the most visible and spectacular consequences of plate tectonics?
- 3. What happens when two continents meet head-on, meet head-on and neither is subducted?

# Look at the diagram under the Continental-continental information: Label diagram.



# Part F: Plate Tectonics: Types of Boundaries: Transform Boundaries

Scroll down to: Transform Boundararies:			
	The zone between two plates sliding horizontally past one another is called a transform-fault boundary, or simply a		
Cl	ick on the diagram <u>San Andreas fault</u> [52 k]		
a.	The picture is an aerial view of what?		
b.	Make three observations about the picture		
с.	What type of boundary does it results from?		