

# Earth Science Review

Class: \_\_\_\_\_

Name \_\_\_\_\_

Assignment: **Tectonic Plates**

Date \_\_\_\_\_

**Directions**

*Label the following items from the Pacific Northwest Plate Tectonics model on the illustrations below*

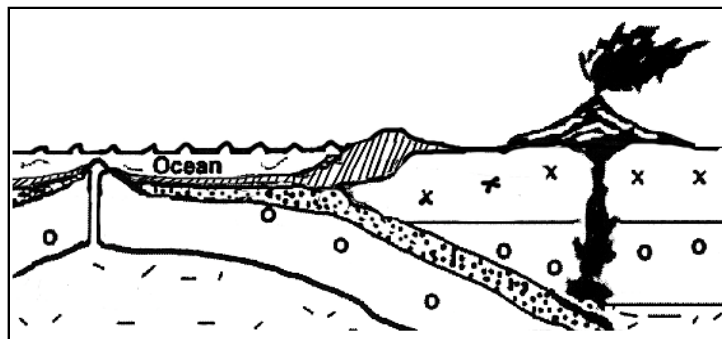
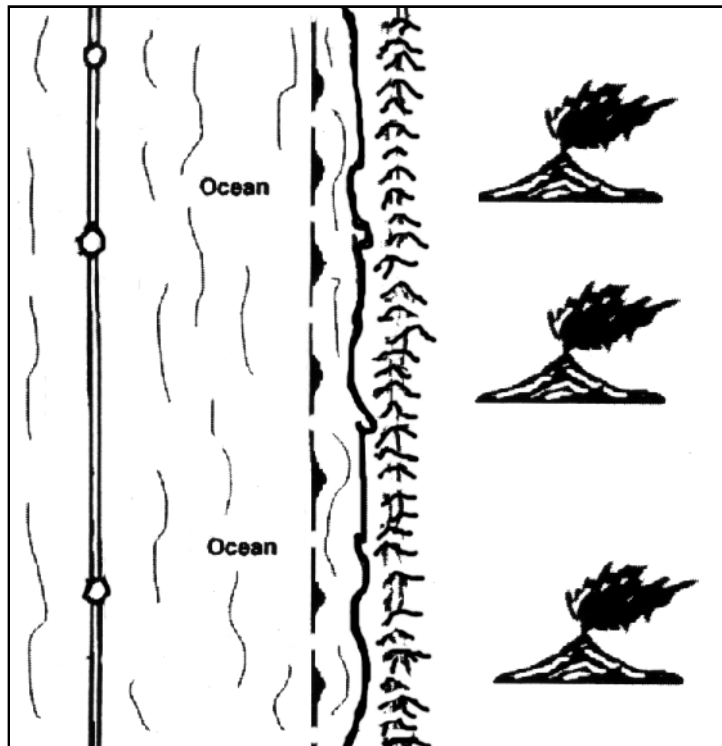
**Top view:** Juan de Fuca Ridge      Pacific Ocean      Coast Range      Cascade Range  
                  North American Plate      Juan de Fuca Plate      Pacific Plate      Cascadia Subduction zone

**Side view:** Juan de Fuca Ridge      Pacific Ocean      Coast Range      Cascade Range  
                  accretionary wedge      continental crust      ocean crust      upper mantle  
                  asthenosphere      lithosphere

*Use arrows to indicate the direction of movement for the following:*

**Top view:** North American Plate      Juan de Fuca Plate      Pacific Plate

**Side view:** magma at the ocean ridge      subduction of the ocean plate  
                  magma through the overriding continental plate



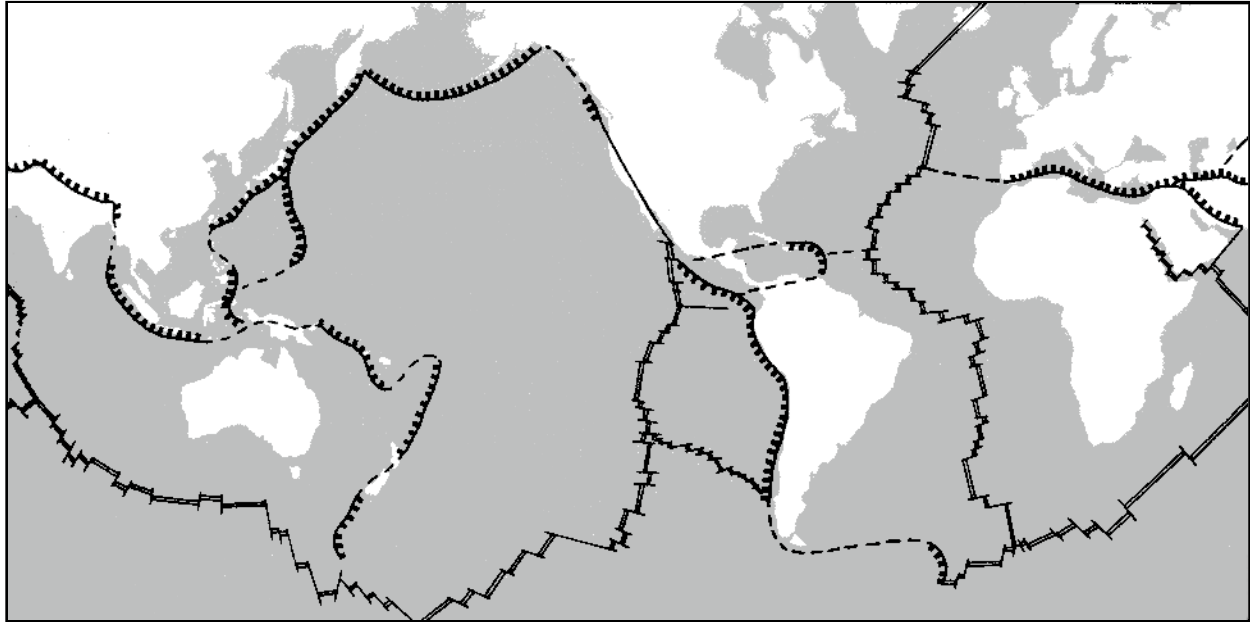
3-D View of the Juan de Fuca Plate

# Earth Science Review

## Directions

Label the following items on the map below

North American Plate	South American Plate	Eurasian Plate	African Plate
Indian Plate	Pacific Plate	Nazca Plate	Philippine Plate
Antarctic Plate	Juan de Fuca Plate	Himalayan Mtns.	Mariana Trench
East Pacific Rise	Mid-Atlantic Ridge	Peru-Chile Trench	Andes Mtns.



## Vocabulary & Geologic Names

accretion	Andes Mountains	asthenosphere
basalt	Cascade Range	Cascadia Subduction zone
coastal range (WA & OR)	collision boundary	conduction
continental drift	convection	converging boundary
cratons	crust	deep-sea trench
density	diverging boundaries	East Pacific Rise
fault	fracture zones	granite
heat flow	Himalayan Mountains	Indian Plate
Juan de Fuca Plate	Juan de Fuca Ridge	lava
lithosphere	magma	magnetic polar reversal
mantle	Marianna Trench	Marianna Islands
Mesosaurus	mid-ocean ridges	Mid-Atlantic Ridge
Mount St. Helens	Nazca Plate	Pacific Plate
Peru-Chile Trench	Philippine Plate	plate boundary
plate tectonics	plates	radiation
rift valleys	Ring of Fire	San Andreas Fault
sediments	seismic waves	sliding boundary
South American Plate	spreading centers	subduction boundary
terrane	transform boundary	Ural Mountains
Appalachian Mountains		

## Concepts & Processes

characteristics of a sliding (transform) boundary; characteristics of a diverging boundary (spreading center); characteristics of a collision (continent-continent) boundary; characteristics of a subduction boundary between two ocean plates; characteristics of a subduction boundary between continent-ocean plates