

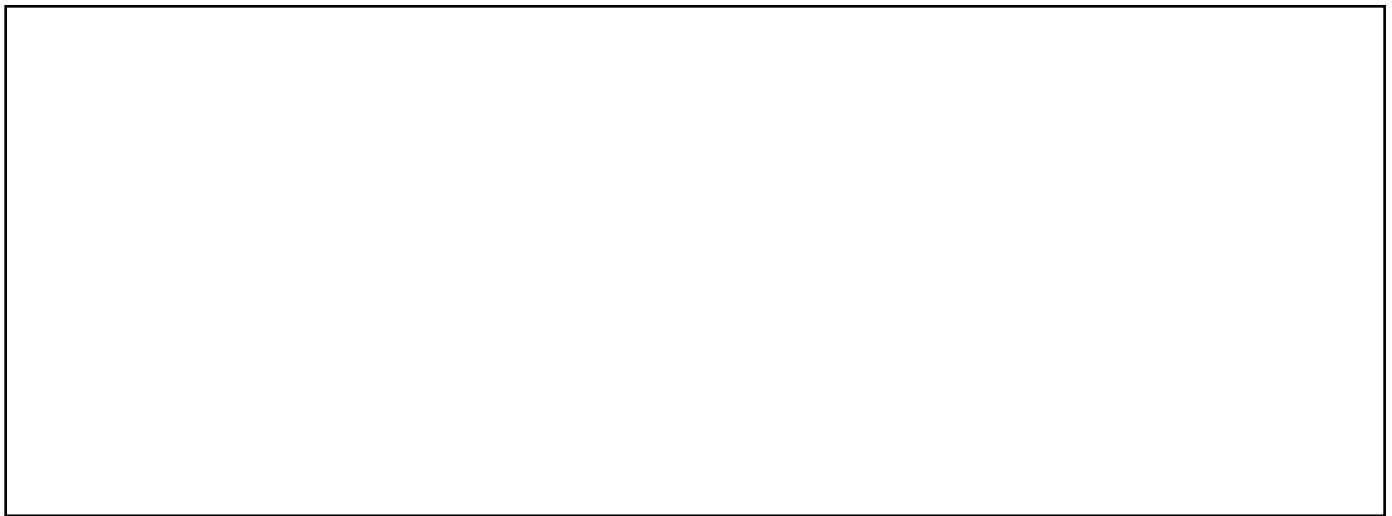
CONVERGENT PLATE BOUNDARIES

NAME

Locate all plate boundaries and identify all those which are convergent.



* **Diagram to explain what occurs at a subduction zone.** Note plate type & movement, volcanoes & trench.



Converging plates may be either C or O .

When an oceanic plate moves towards a continental plate, the O plate is forced down into the M where it M . It is forced down because it is D . The process of downward movement is called S .

Where the sinking plate melts, it forces molten M upwards towards the surface on the margin of the C plate. This creates V (eg:- Mt St H in Washington State in the C range of mountains) Another example of a volcanic range on a continental margin is the A in S America. As molten magma rises from the subducted plate **and** passes through the other plate (C crust), this plate too melts. Volcanoes at the surface, therefore, form from magma from both sources.

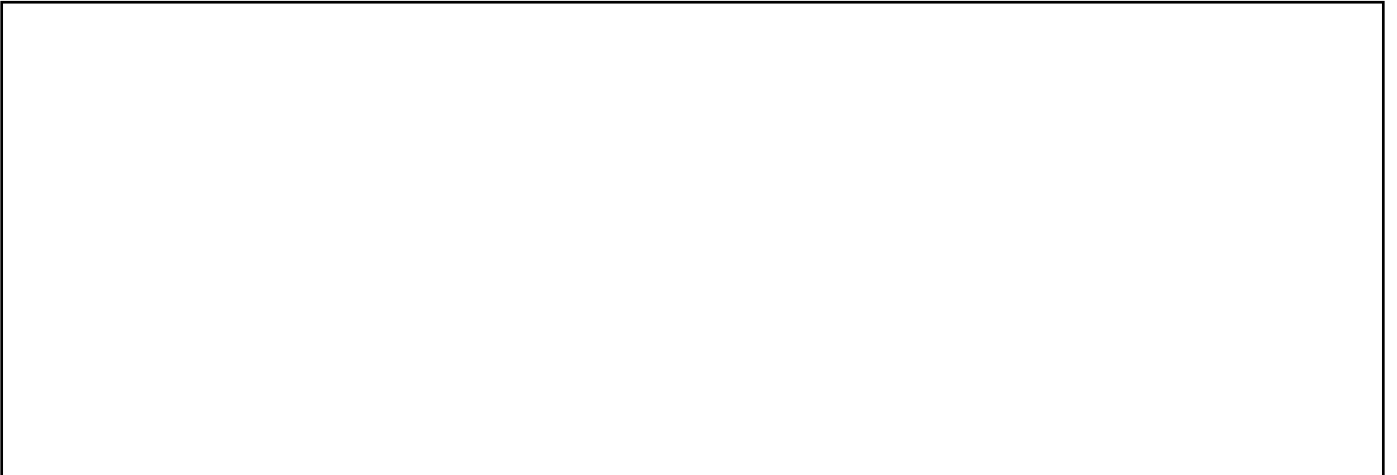
* **Locate all oceanic / continental convergent plate boundaries on the world map above.**

* Use a diagram to show the processes at a **oceanic/continental plate boundary**. Show trench, movement, plate type, density, volcanoes, mantle, sediments, likely earthquake region etc.



NOW sketch the processes at a **oceanic/oceanic convergent plate boundary**

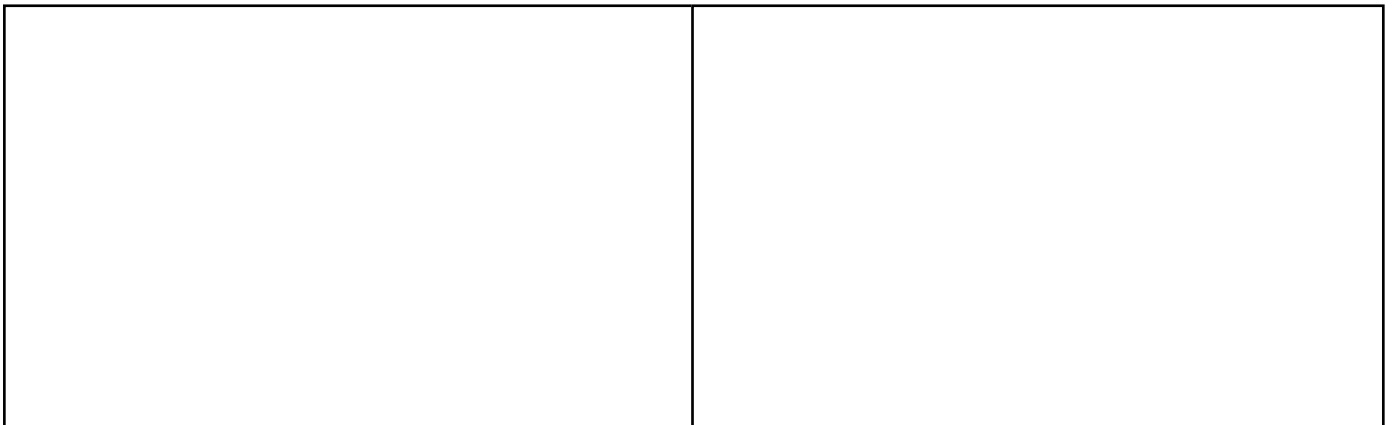
Note especially the feature caused by the volcanoes (an A)



State an example of an **oceanic/oceanic convergent plate boundary**, and a related **Island arc**.

* **Locate & name** this example on the world map.

* Use **TWO** diagrams to show processes and features at a **continental/continental** plate boundary.



Give an example of a **continental/continental** plate boundary, and locate on the world map.

No continental plate is subducted because

Collision between C plates causes ranges of F mountains. Examples include the A & the U in Europe, the H in Asia. These were formed when P began to break up yrs ago causing I and A to collide.

* **Locate these examples on the world map** * **Name plates & show movement on map.**