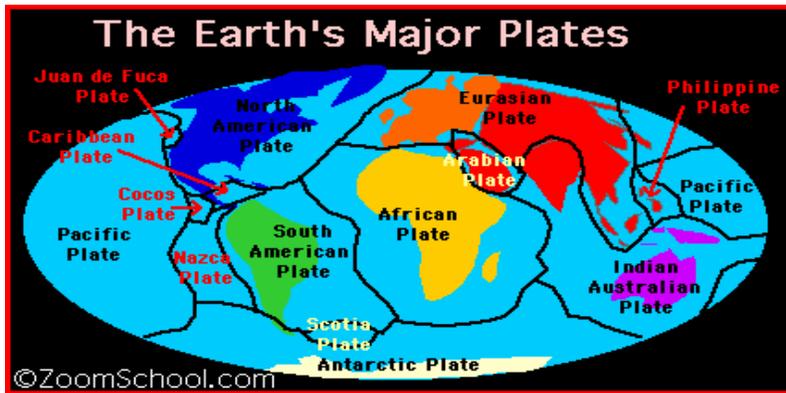


## Notes: Continental Drift, Plate Tectonics & Sea-floor Spreading

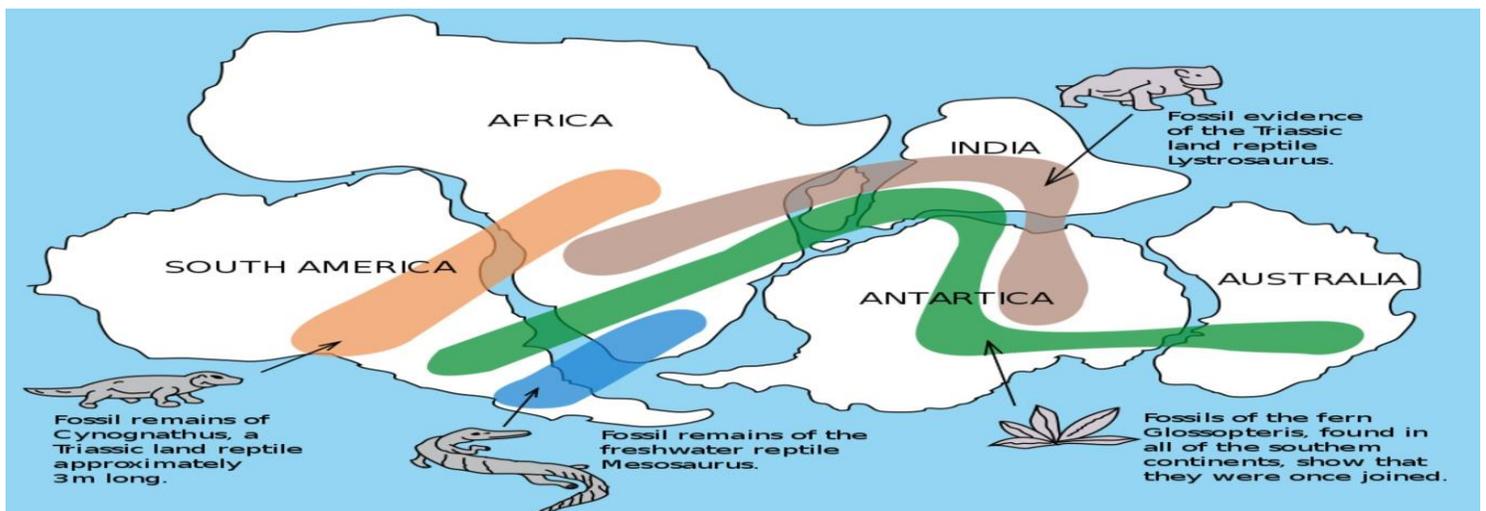
### PLATE TECTONICS

\_\_\_\_\_ plates are pieces of the \_\_\_\_\_ that \_\_\_\_\_ around because they sit on the flowing asthenosphere. The 13 \_\_\_\_\_ are named. They fit together like \_\_\_\_\_ - \_\_\_\_\_ pieces. These plates float on the top of the \_\_\_\_\_ like ice cubes in a bowl of water.



### CONTINENTAL DRIFT

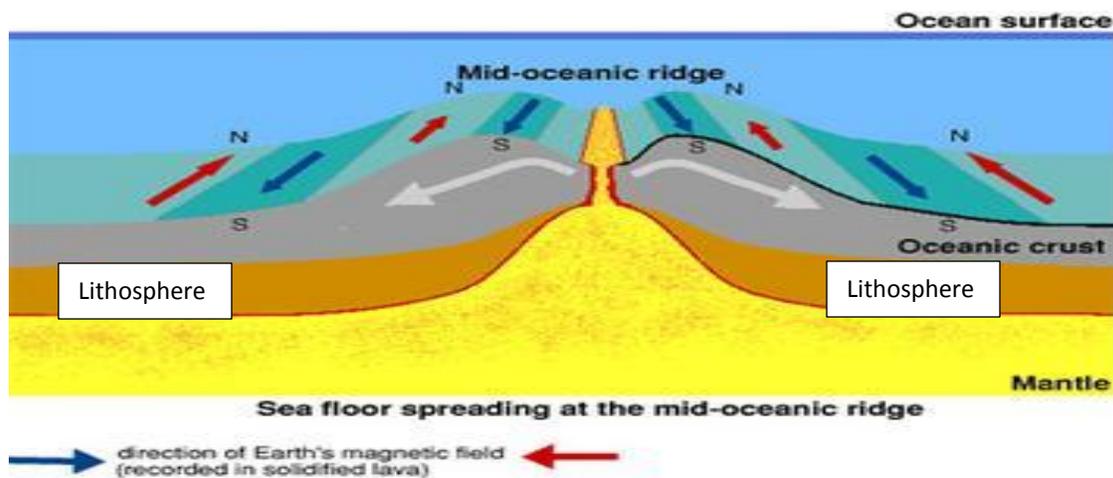
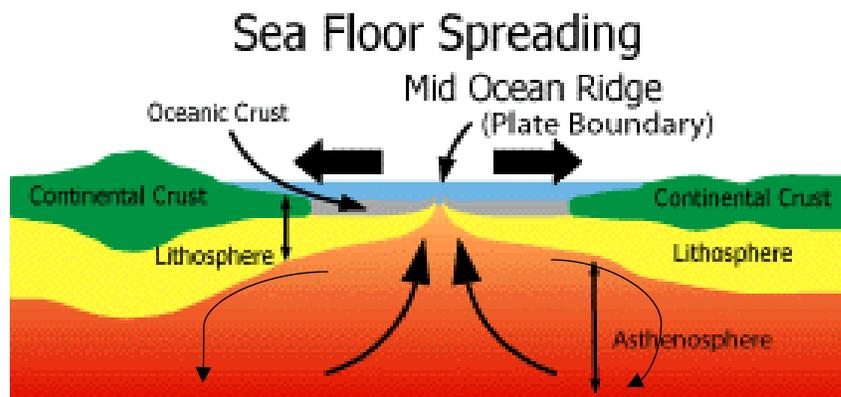
\_\_\_\_\_ in the 1900's believed that continents were once a single \_\_\_\_\_ that \_\_\_\_\_ apart. \_\_\_\_\_ of the same plants and animals are found on different \_\_\_\_\_. This \_\_\_\_\_ was called \_\_\_\_\_. Meaning Greek for "\_\_\_\_\_". Split again – \_\_\_\_\_ million years ago. Formed two new continents known as \_\_\_\_\_ & \_\_\_\_\_.



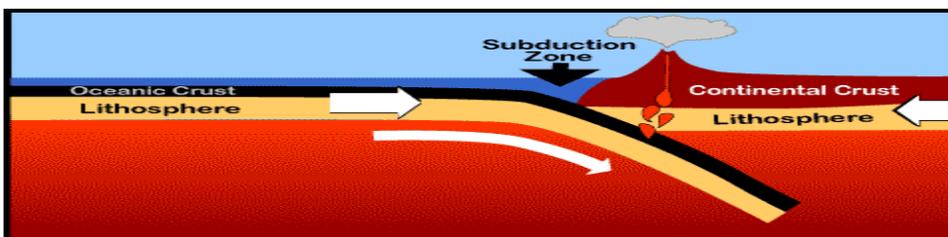
## SEA-FLOOR SPREADING

The \_\_\_\_\_ - \_\_\_\_\_ is an underwater mountain chain that run through the Earth's \_\_\_\_\_ (or ocean basins)

\_\_\_\_\_ rises to the \_\_\_\_\_ and solidifies (becomes rock hard) as new \_\_\_\_\_ forms. Older \_\_\_\_\_ is pushed farther away from the Mid- Ocean



As magma from the asthenosphere creates new crust the older crust is pushed farther away from the Mid-Ocean Ridge and Earth's magnetic field is reversed. Newer crust is closest to the ridge while older crust is further away and is eventually subduction occurs as the crust and tectonic plate falls back into the mantle.

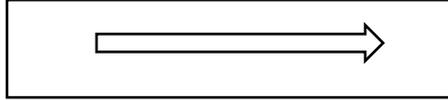
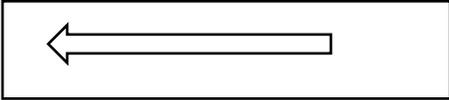


When one tectonic plate slides beneath another it is called **subduction**.

## DIFFERENT TYPES OF PLATE BOUNDARIES

Plate boundaries are areas where the tectonic plates meet at edges. Subduction may occur, valleys, mountains and even volcanoes are born at these boundaries. There are three types.

1. \_\_\_\_\_ Boundary – plates are moving \_\_\_\_\_ from each other.



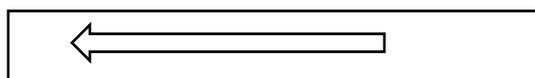
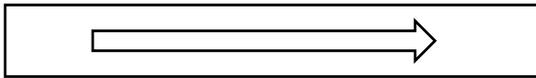
Two Types a) continental crust moves away from continental crust & creates rift valleys & volcanic eruptions



- b) oceanic crust moves away from oceanic crust at the mid-ocean ridge and creates new oceanic crust

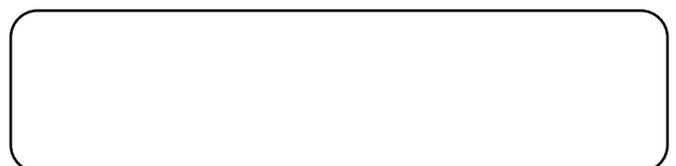
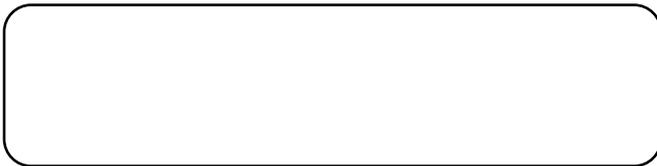


2. \_\_\_\_\_ Boundary – plates are moving \_\_\_\_\_ one another



Oceanic & Continental Crust

Continental & Continental Crust or Oceanic & Oceanic Crust



3. \_\_\_\_\_ Boundary – plates slide \_\_\_\_\_ each other

This can create a crack in the Earth's crust known as a fault. Earthquakes frequently occur here.

