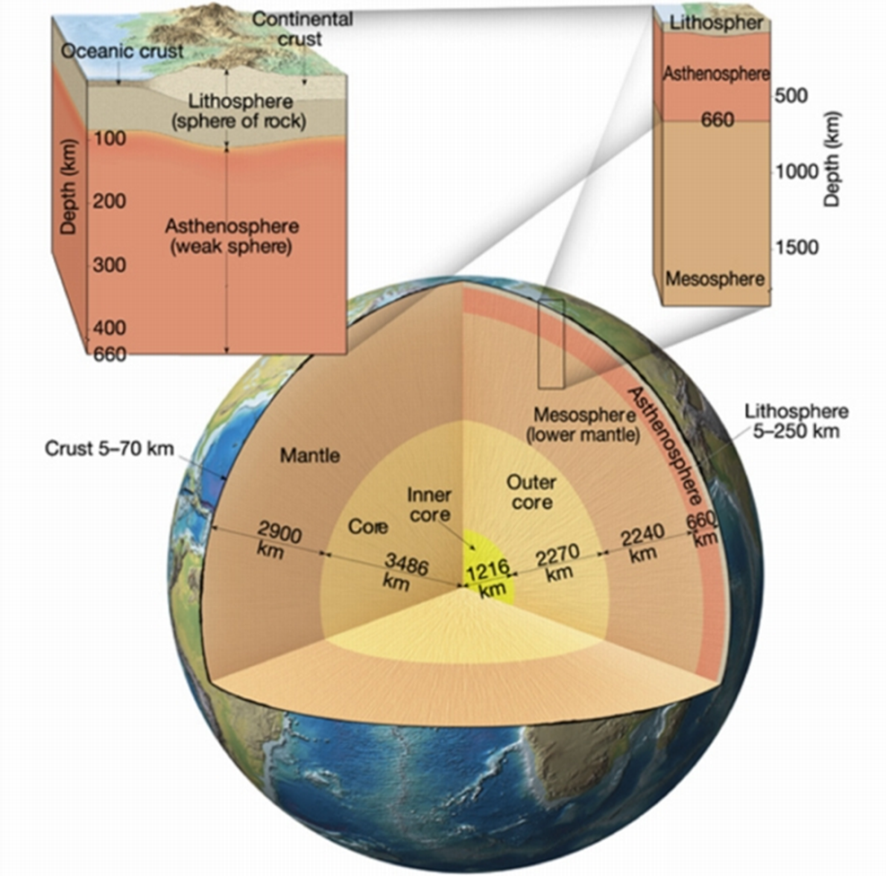
Theory of Plate Tectonics Notes

I. Plate Tectonics

* The Earth’s crust is made up of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_which move across the surface of the planet.
* This moves the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_with them.

II. What causes Plate Tectonics?

A. Convection Currents:

* Differences in density cause \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to be forced upward toward the surface

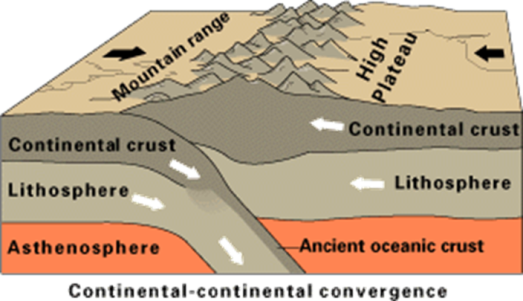
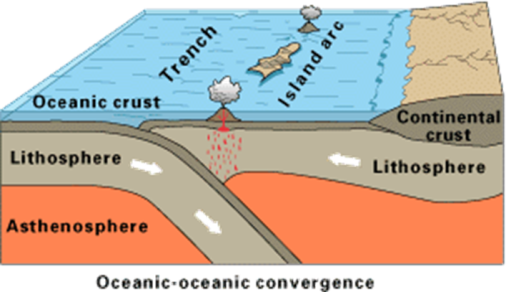
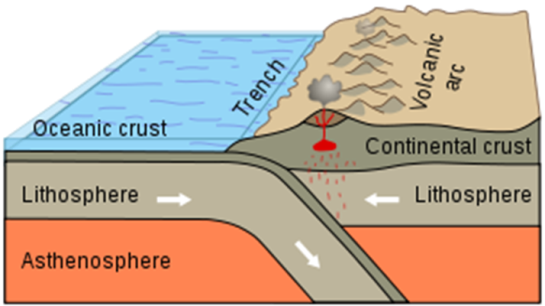
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is carried with it
* When it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ into the mantle and takes the crust with it.

**Activity \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the earth causes changes to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

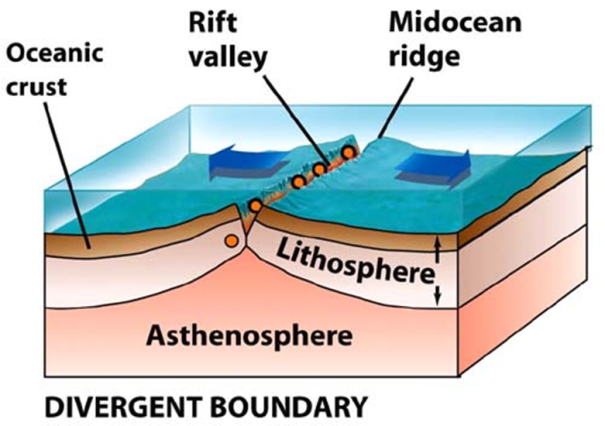
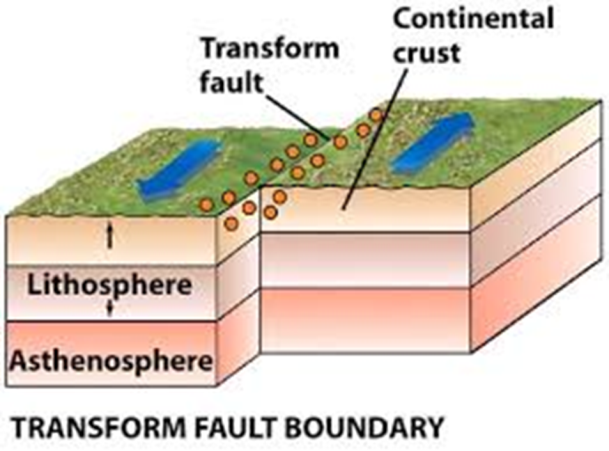
Subduction Zones: The area when one plate moves \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_another in a convergent boundary

III. Types of Boundaries

**Convergent Boundaries**



\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Boundary \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Boundary

|  |  |  |  |
| --- | --- | --- | --- |
| **Boundary Type** | **Movement** | **Features Formed** | **Examples on Earth** |
| Divergent |  |  |  |
|  | Continental-Continental collision |  |  |
|  | Continental-Oceanic collision |  |  |
|  | Oceanic-Oceanic collision |  |  |
| Transform |  |  |  |

IV. Hot Spots

* Hot Spot: Hot magma \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and pushes through a plate.
* This creates volcanoes and can create \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The hotspot \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, but the crust does, pulling islands away from the hotspot to form new islands.