EARTH STRUCTURE NOTES

Essential Questions:

- 1. How do internal and external forces change, create, and shape landforms?
- 2. What affect do these changes have on the human population?

How to Write notes in Outline Form

- The TOPIC will be a roman numeral: I (1), II (2), III (3), IV (4).
- Each MAIN IDEA will be a letter under the Topic.
- Each DETAIL will be a number under the Main Idea.

EXAMPLE

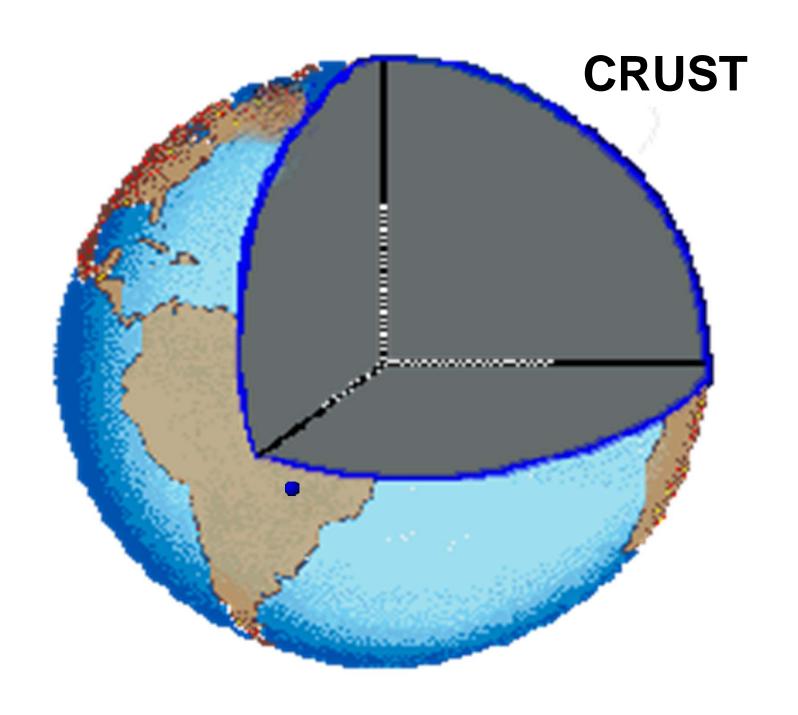
I. Structure of the Earth TOPIC

A. Crust MAIN IDEA

- thin rock layer making up the earth's DETAIL surface
- 2. relatively light and brittle **DETAIL**
- 3. where most earthquakes happen DETAIL

I. STRUCTURE OF THE EARTH

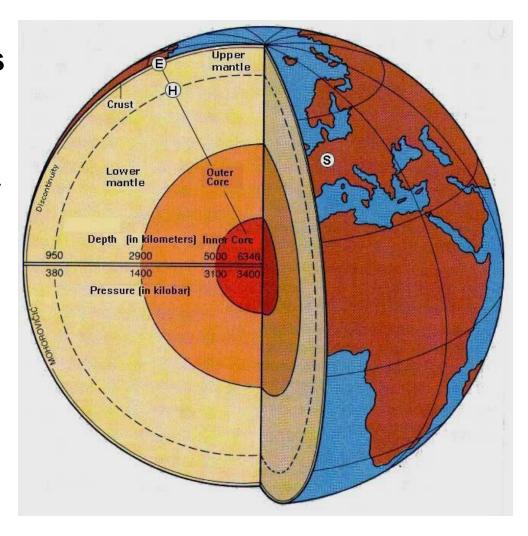
- Crust
- Mantle
- Core
- Continental Drift

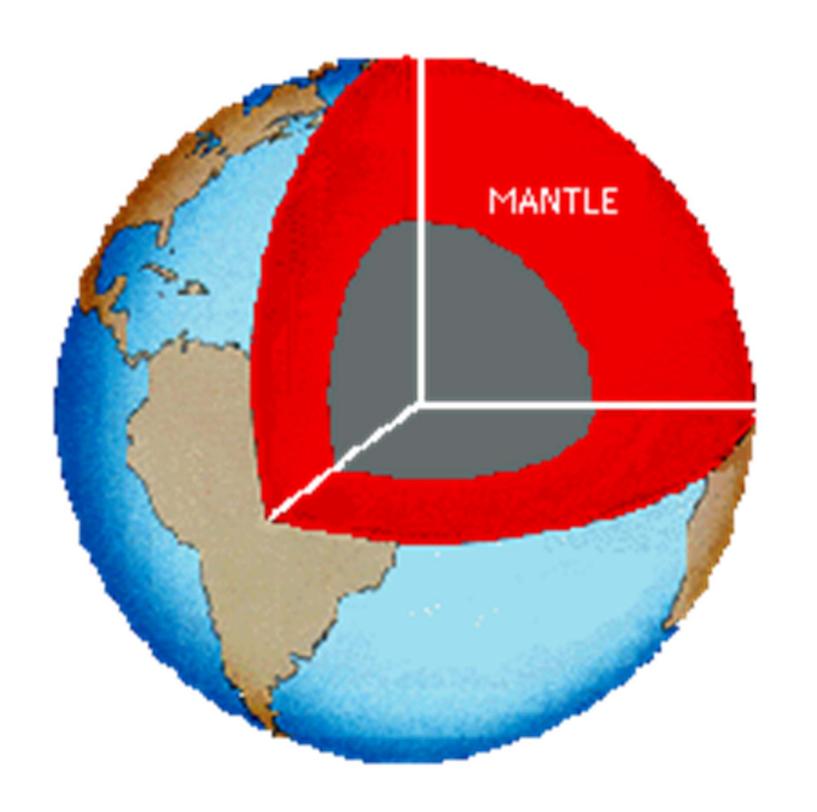


A. CRUST! "

Aka: lithosphere

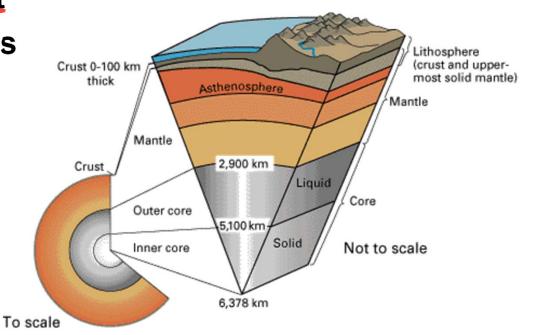
- 1. The thin rock layer making up the earth's surface.
- 2. The crust is relatively light and brittle.
- 3. Most earthquakes occur in the crust.

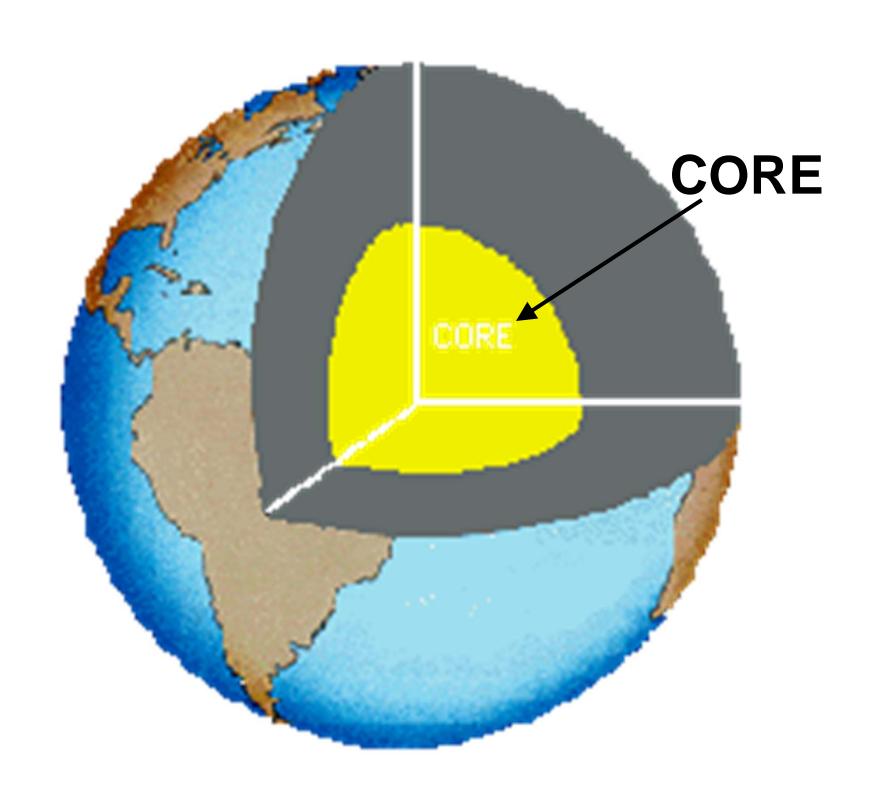




B. MANTLE!

- 1. A rock layer about
 1.800 miles thick that
 is between the earth's
 crust and the earth's
 core.
- 2. The mantle is relatively flexible, so it flows instead of fracturing.



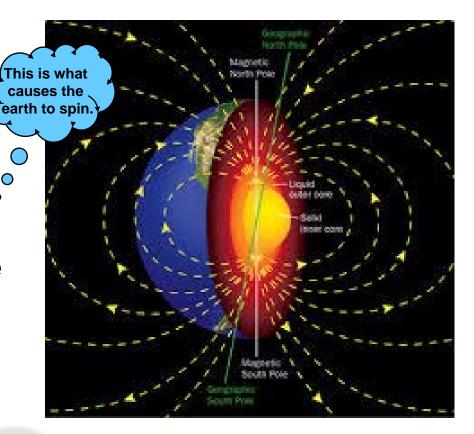


C. CORE!

1. The earth's center, made up of iron and nickel.

2. The inner core is solid, the outer core is liquid:

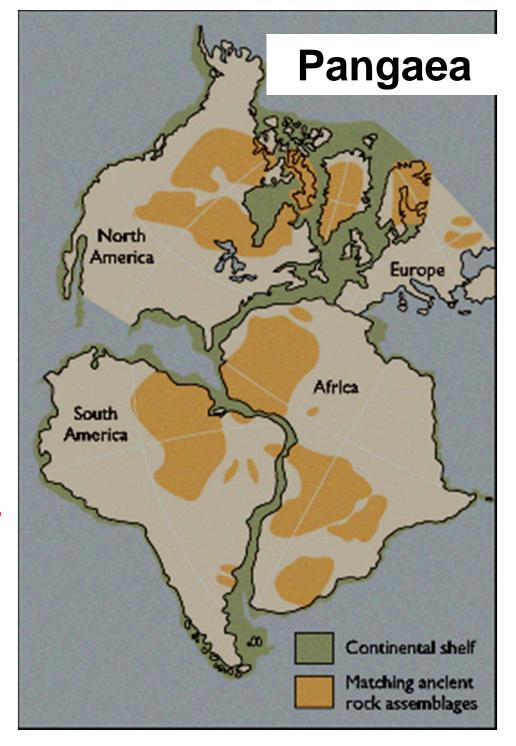
3 Because the outer core contains iron, when it flows it generates the earth's magnetic field.





D. Continental Drift

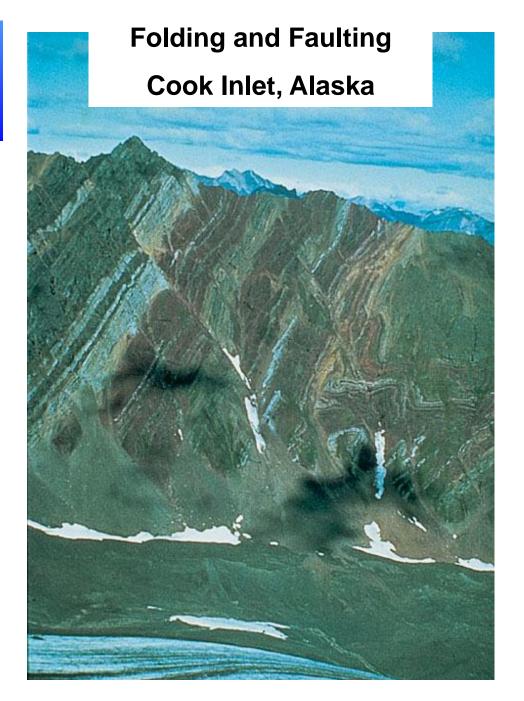
- 1. Hypothesis that all continents were once joined into a supercontinent
- 2. Supercontinent split apart over millions of years
- 3. Continues to separate today.



II. TECTONIC PLATES

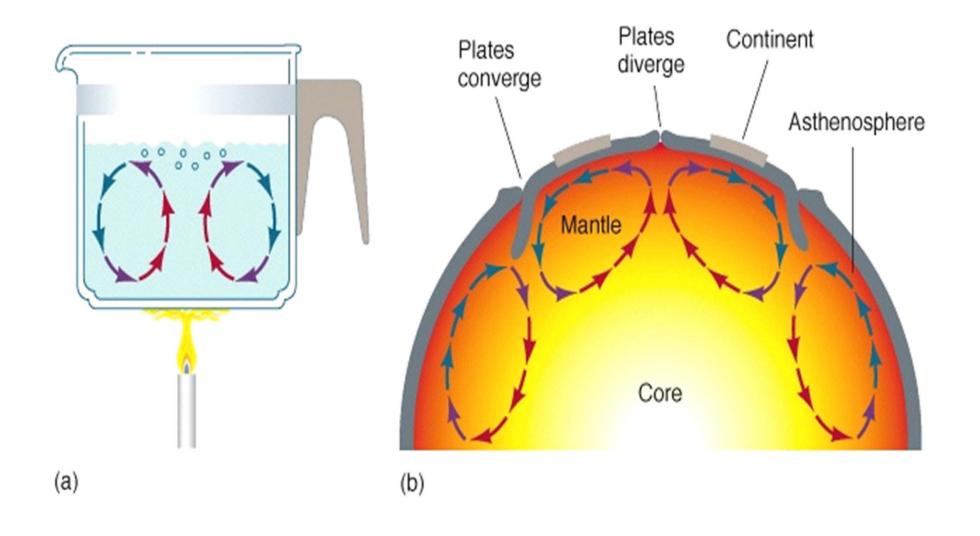
A. Moving Shelves

- 1. Form the earth's crust
- 2. Fault- break in the crust
- 3. Fold- fold in the crust

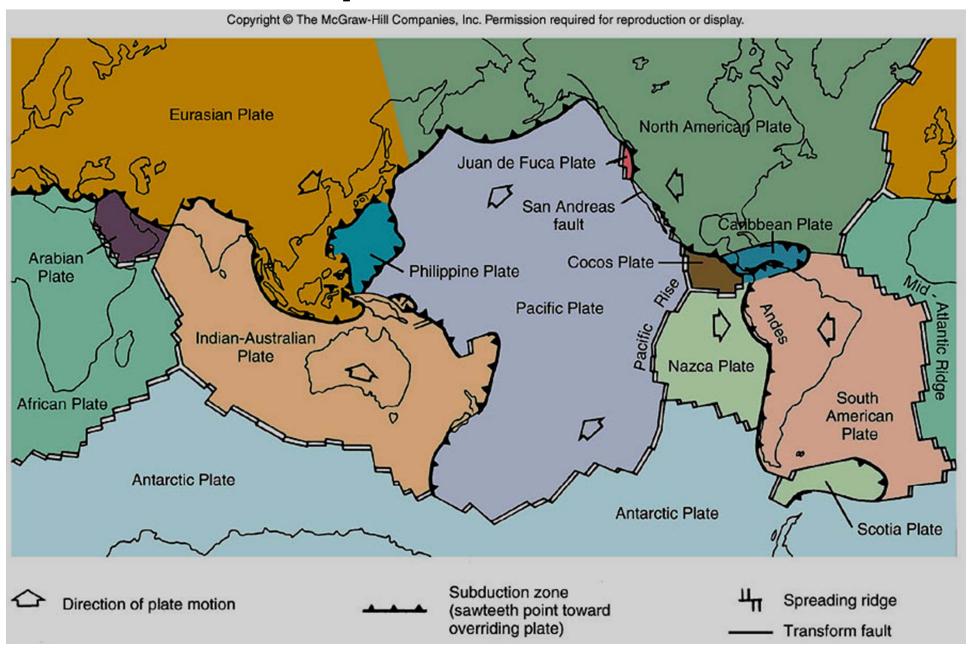


B. Convection- heat from the earth's interior makes the plates move.

THIS CAUSES EARTHQUAAAKESS!



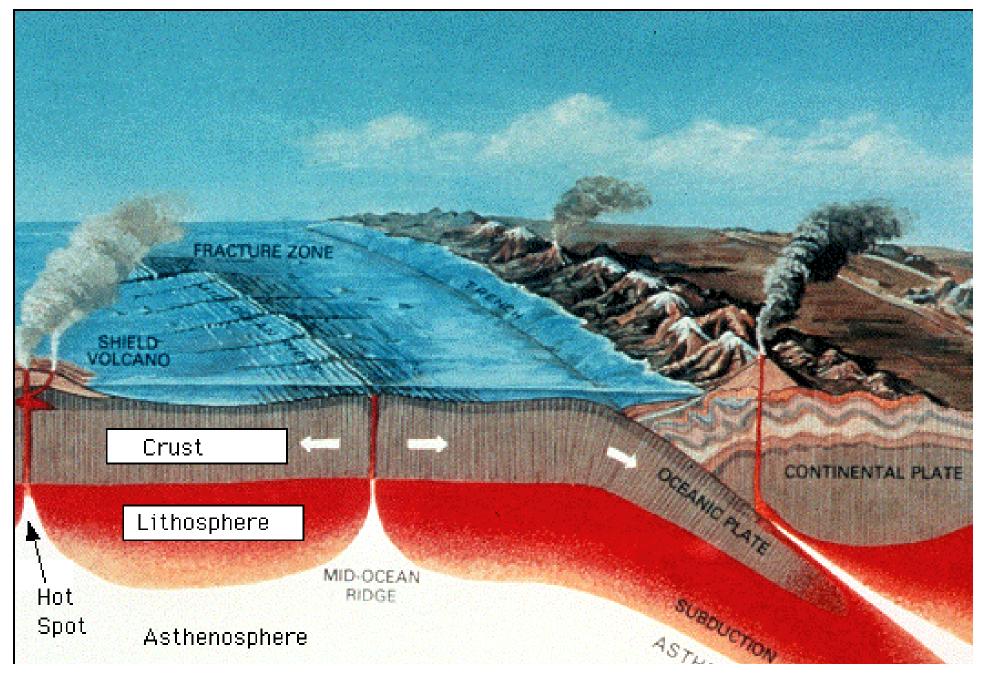
World Lithospheric Plates



III. TYPES OF PLATE BOUNDARIES

- Divergent Plate Boundaries
- Transform Boundaries
- Convergent-Subduction
 Plate Boundaries

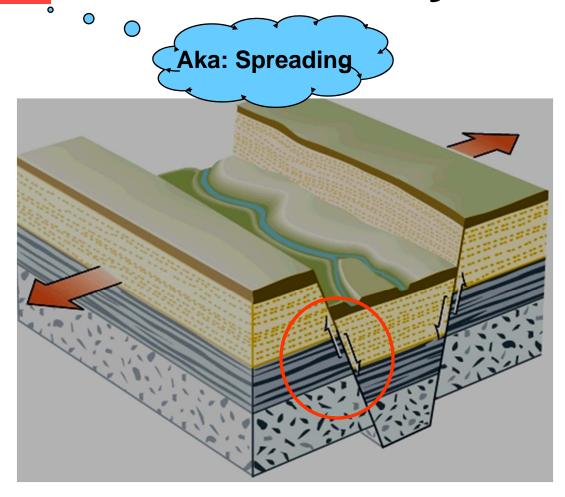
Plate Boundaries



A. Divergent Plate Boundary

1. Plates move apart

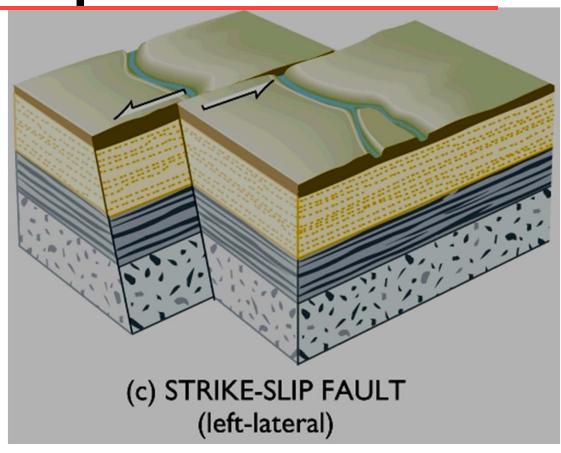
2. Spreading horizontally

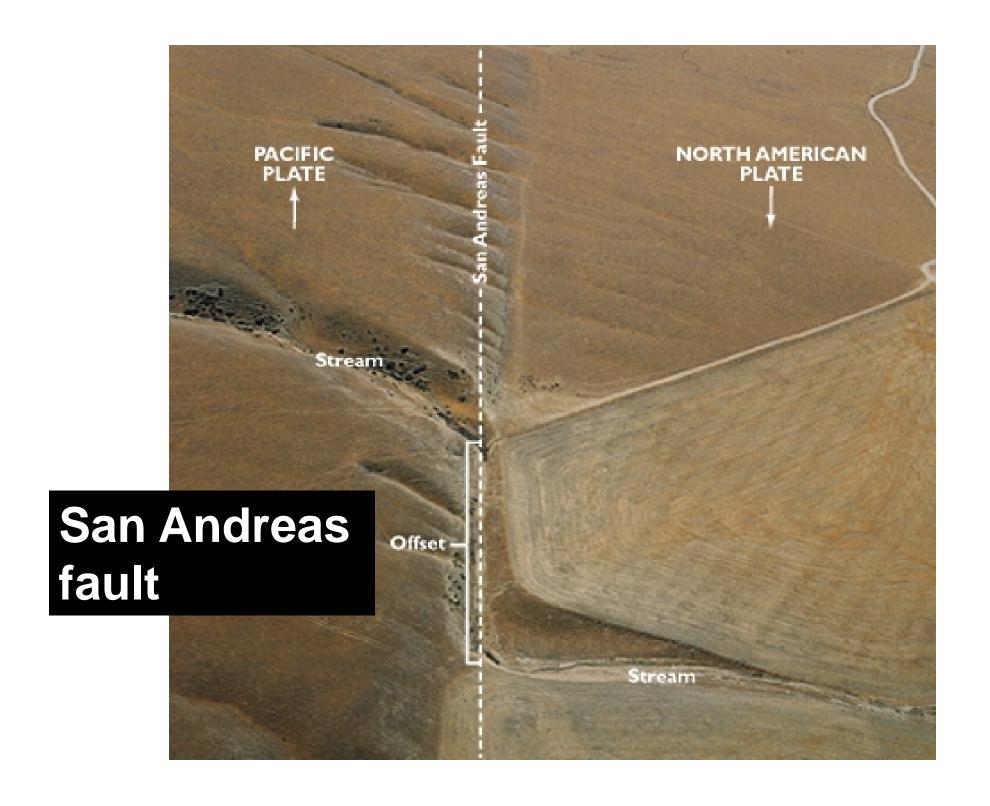


Normal Fault

B. Transform Plate Boundary

1. Plates slide past one another





C. Convergent-Subduction Plate Boundaries

1. Occur when plates collide

- 2. Associated with
 - 1. Subduction zones
 - 2. Volcanic Arcs
 - 3. Mountain Building

←Subduct- one plate gets pushed UNDER another plate.

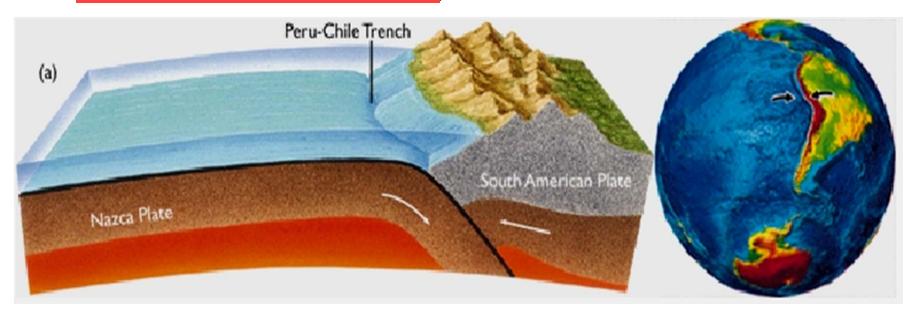


Plate Movement

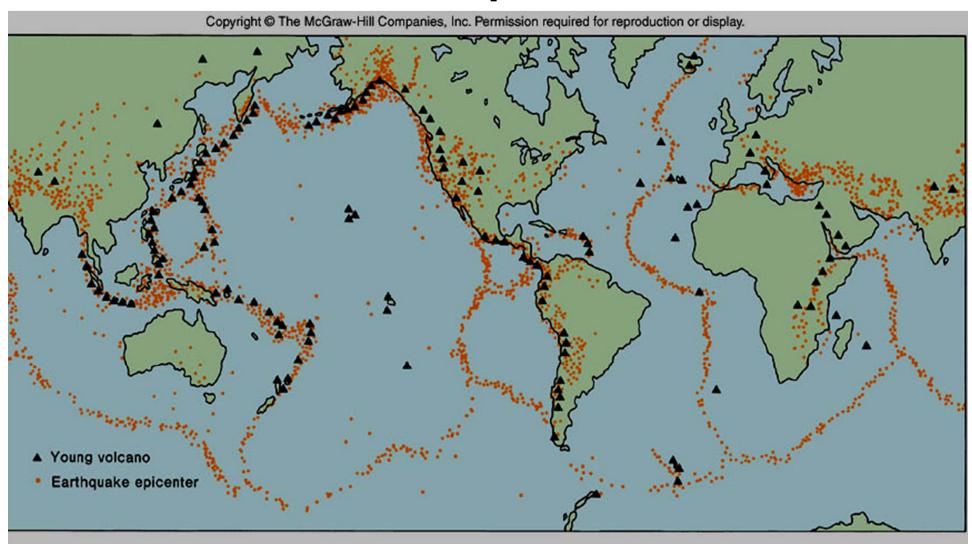
 http://www.seed.slb.com/en/scictr/watch/liv ing_planet/mountains.htm

D. Ring of Fire

- 1. Zone around the rim of the Pacific Ocean.
- 2. Active fault lines create natural hazards
 - 1. Volcanoes
 - 2. Earthquakes
 - 3. tsunamis



World Locations of Volcanoes and Earthquakes



Time to Reflect

Write a 2 sentence summary about today's notes

-Write about 2 facts you already knew

-Write 1 fact that was new to you today ©