

8th grade Week 30 Notes- Day 1

Changing Earth

“Solid” Earth

- 1. Crust*
 - 2. Mantle*
 - 3. Outer Core*
 - 4. Inner core*
- * Lithosphere*

**Asthenosphere*

**These are
“regions” of the
Earth’s Interior*

Types of Crust:

- a) Oceanic*
- b) continental*

***Rocks are in
the crust***

- a) Sedimentary***
- b) Metamorphic***
- c) Igneous***

Crust is cracked:

Tectonic plates

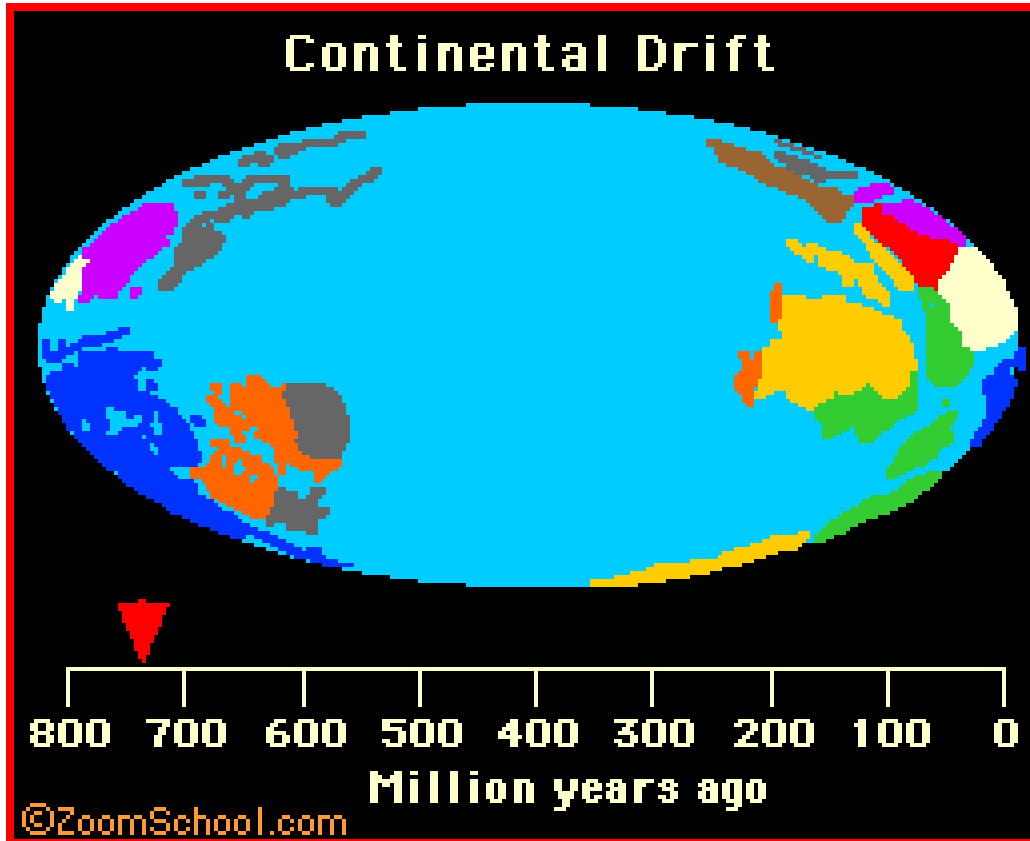
Example:

Pacific plate

N. American plate

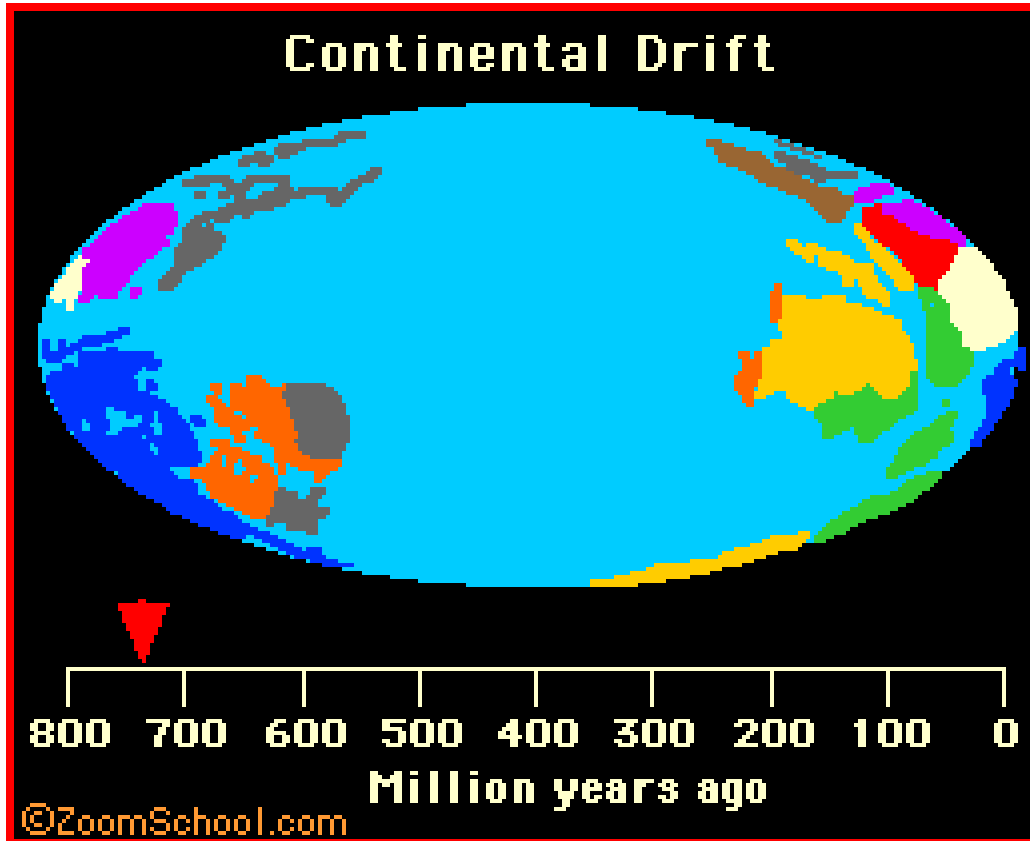
Continental Drift

Alfred Wegener (Early 1900's) proposed that the continents were once a single land mass that drifted apart.

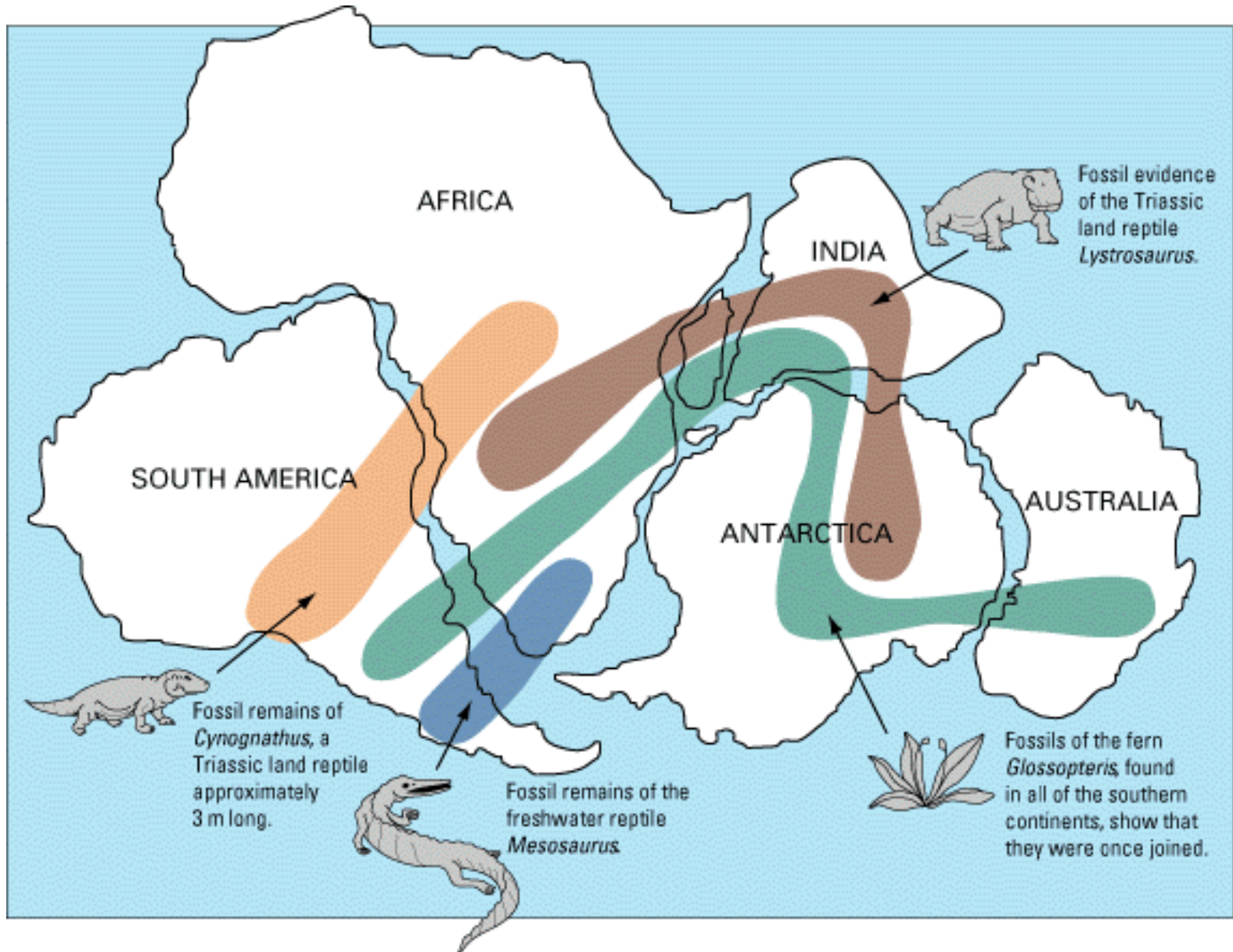


Continental Drift

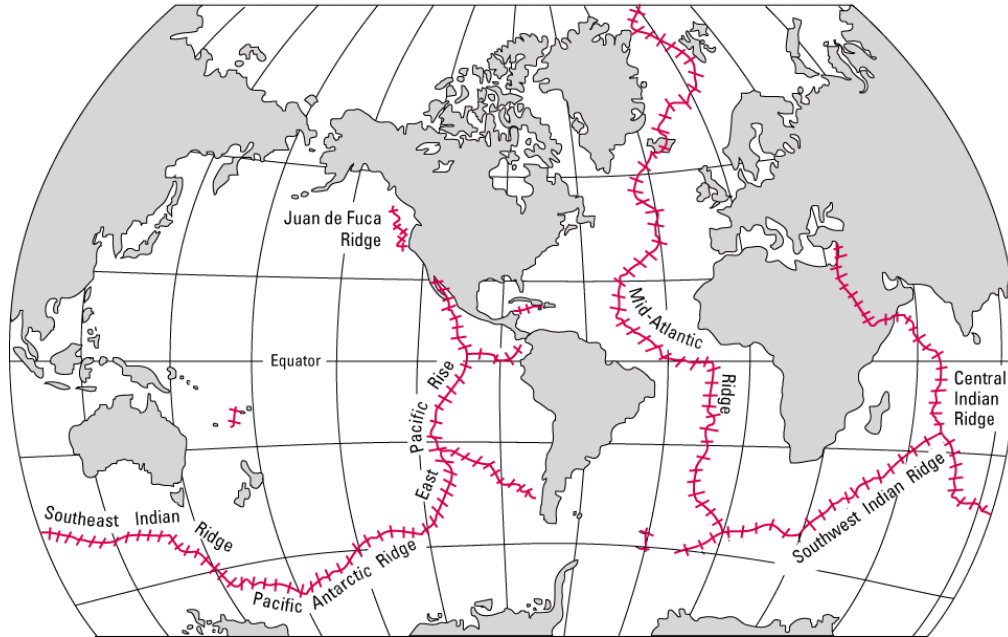
He called this "super continent"
PANGEA
(pan-g-ah)



Evidence of Pangea

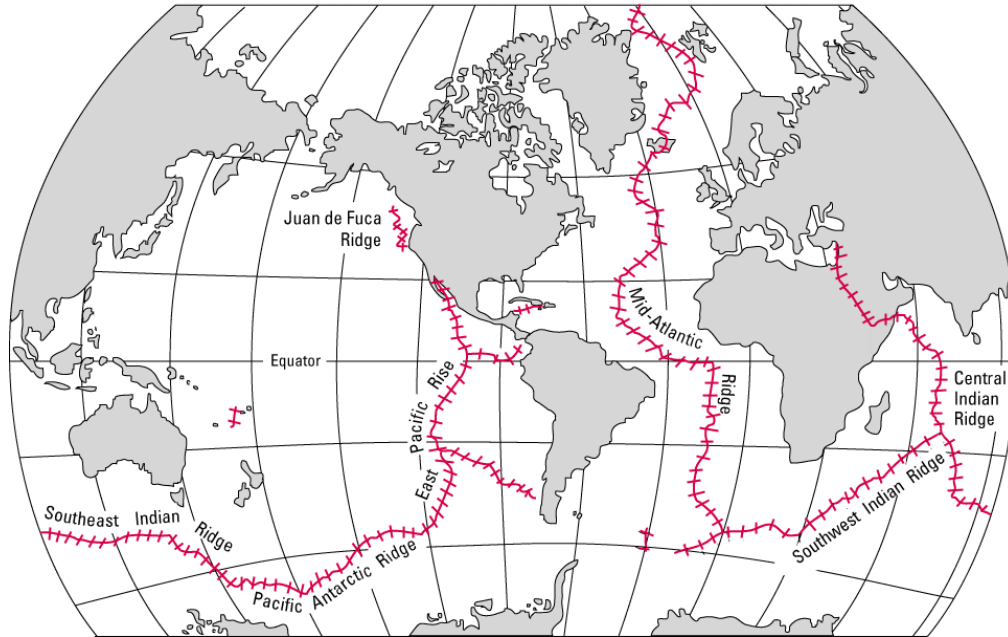


Continental Drift



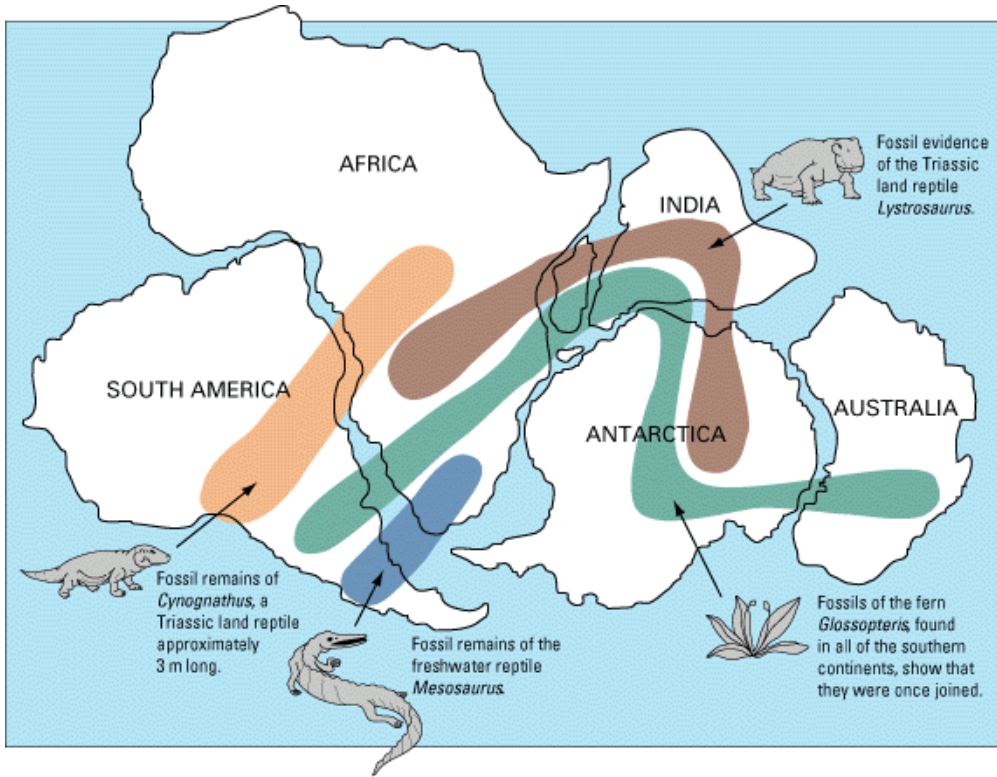
**Evidence 1-
Plants and
Fossils of the
same animal
found in
different
places.**

Continental Drift

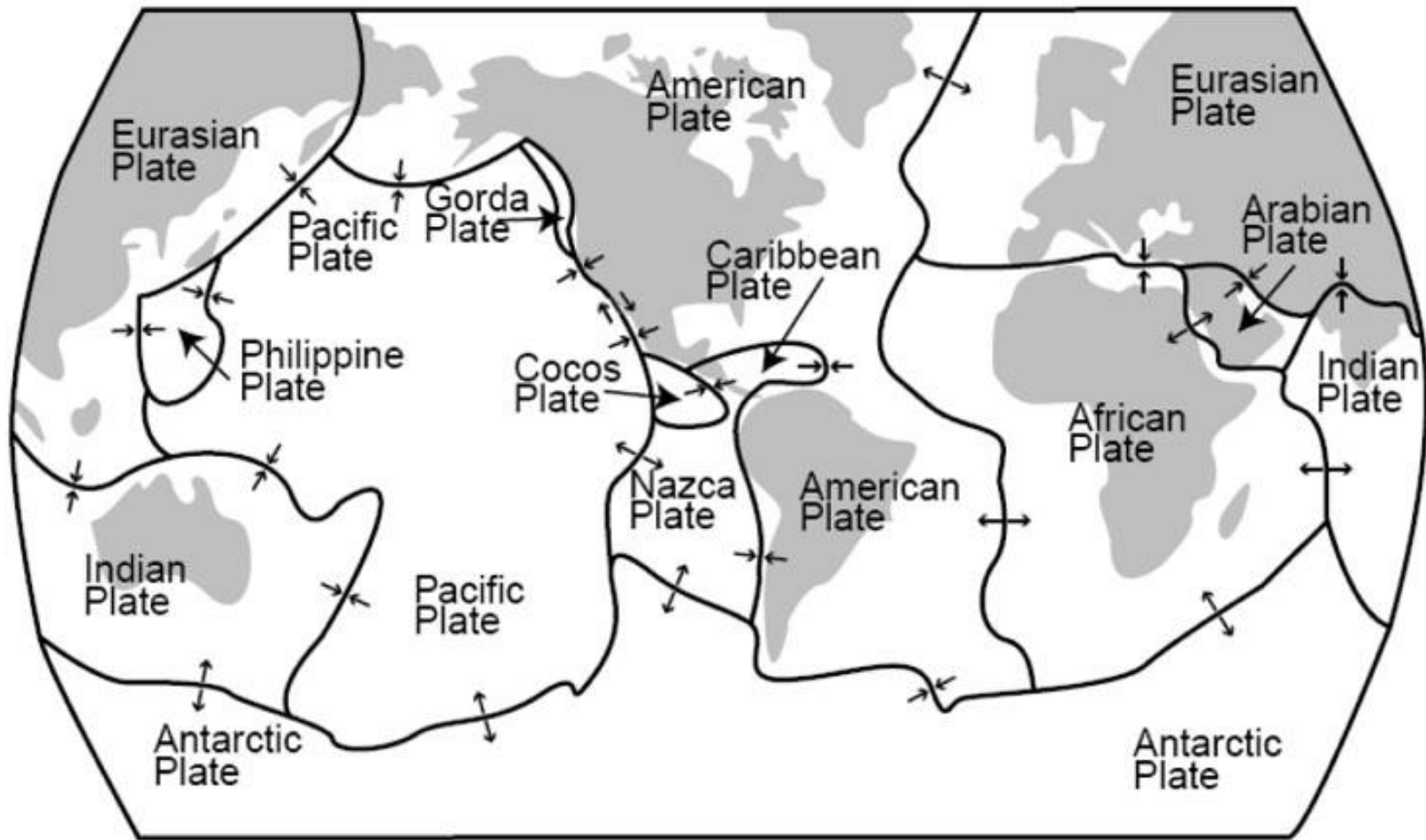


**Evidence 2-
Tropical
animal and
plant fossils
found in
“cold” places**

Continental Drift



**Evidence 3-
Land
masses
seem to
“fit”
together.**



- ↔ "Pull-Apart" stresses - plates are moving away from each other
- ← "Push-Together" stresses - plates are moving towards each other
- ↔ "Slide-Past" stresses - plates are sliding along each other

Pull apart= DIVERGENT BOUNDARIES
Push together= CONVERGENT BOUNDARIES
Slide- Past= TRANSFORM BOUNDARIES

Tectonic Plates

C-notes

A fault is a crack in the Earth's crust.

The edges of each of the tectonic plates are the "boundaries".

The boundaries of the plates interact with the plate next to it....

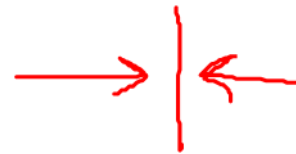
Types of Plate Boundaries

C-notes

Only three types:

Convergent: When two plates collide, crash with each other. One plate may go **UNDER** the other- that is called **SUBDUCTION**

Symbol:



Results:

Mountains

Volcanoes

earthquakes

Types of Plate Boundaries

C-notes

Divergent (DIVIDE):
When two plates are moving away from each other

Symbol:



Results:

Volcanoes
earthquakes

Types of Plate Boundaries

C-notes

Transform: When two plates SCRAPE against each other

Symbol:



**Results:
earthquakes**