**TECTONIC PROCESSES**

**There are different ways the plates move.**

**There are three types of boundaries that geologists observe.**

**1.**

**2.**

**3.**

**🡪1. Divergent Boundaries**

a) What is happening to the plates in divergence? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) What are the two types? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) In an Oceanic divergent plate boundary, when the plates move away from each other, they leave a crack in the ocean floor. **\_\_\_\_\_\_\_\_\_** flows out of the crack and **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** (rock).

d) In a Continental divergent plate boundary, a \_\_\_\_\_\_\_\_\_\_\_, or separation will arise. Over time that mass of land will break apart into distinct land masses and the surrounding water will fill the space between them

**🡪 2. Convergent Boundaries**

a) Convergence is when \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) What are the three types of convergent boundaries?

1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Oceanic- Continental Convergence**

When an **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** plate and a **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** plate **bang into each other**, the **thinner plate** (ocean plate) gets pushed under the **thicker plate** (continental plate). This leaves a **trench** where the two plates meet.

**Oceanic-Oceanic Convergence**

When two \_\_\_\_\_\_\_\_\_\_\_ plates collide one is usually pushed under the other and in the process a deep oceanic trench is formed.

**Continental-Continental Convergence**

When two **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** bang into each other, they get pushed up and make **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**🡪 3. Sliding/Transform Boundaries**

Transform happens when **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** or **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **move beside each other**. When they try to **slide past each other**, they sometimes get **stuck**.

**\_\_\_\_\_\_\_\_\_\_\_\_** builds up and eventually they **slide very quickly**.

This can cause an **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**. Earthquakes can cause lots of damage.