

Warm up:



Study Notes/Questions

Causes of Plate Movement

Since plates move at different speeds, scientists now believe that _____ work together to move the tectonic plates:

1.

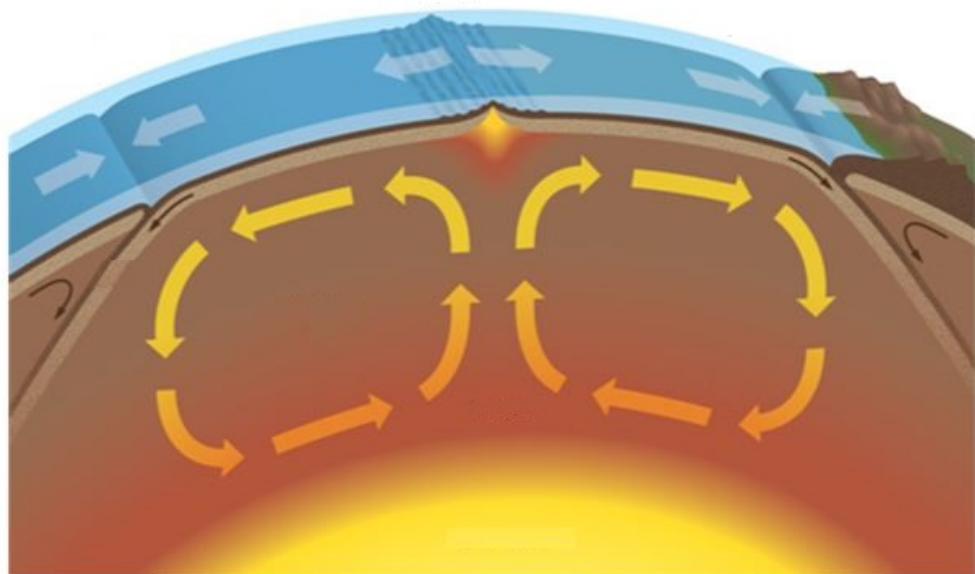
_____ created by the heated mantle rising and cooling mantle sinking _____ moves plates

2.

_____ pushes through the crust, then _____ from the ridge, pushing the rest of the plate ahead of it.

3.

convection currents act on both surfaces of _____ increasing the force pulling it down



18.1 Structure of the Earth

Study Notes/Questions

Effects of Plate Movement

_____ where plates collide _____

Overriding plate scrapes material _____

– most of BC formed this way (explains _____ in Rocky Mountains)

_____ are found parallel to convergent boundaries.

_____ lie along convergent boundaries.

_____ mark divergent boundaries.

Summary: (two to three sentences summarizing this section)

**Self-Reflection
Questions:**

1. Describe one thing you learned about this topic today.

2. Describe one thing about this topic you want to learn in more detail.

18.1 Activity

1. What part(s) of Earth's interior are involved in convection current? Explain.
2. Draw and label a diagram that illustrates ridge push.
3. How does gravity contribute to plate movement?
4. What happens to the oceanic plate as it descends below 700 km in the mantle?
5. At what type of convergent plate boundary is each feature created?
 - a. ocean trench
 - b. mountains containing marine fossils
6. Why are ocean trenches the deepest parts of the ocean?
7. In your own words, define
 - a. mantle convection
 - b. ridge push

c. slab pull