

What Causes Plates to Move?

1. The process by which heat from the Earth's interior causes magma to rise and sink is known as what?

- A. Convection Currents
- B. Slab pull
- C. All of the above

2. What is the heat source for convection in the mantle?

- A. the Crust
- B. the Mantle
- C. the Core

3. When molten material is heated in the mantle it becomes...

- A. more dense
- B. less dense

4. Molecules that are denser than the surrounding particles will...

- A. rise up
- B. sink down
- C. stay put

5. Convection currents produce the heat in the Earth's interior.

- A. True
- B. False

6. What causes convection current in the Earth?

- A. The uneven heating on each layer inside the Earth.
- B. The crusts outer layer.
- C. The temperatures we feel outside.

7. Scientists think that convection currents flow in Earth's ____.

- A. continents
- B. mantle
- C. lithosphere
- D. inner core

8. Can convection currents occur in a solid?

- A. No, just in liquid and gas.
- B. Yes, in solid, liquid, and gas.

9. Which of the following changes would end Earth's tectonic activity?

- A. Earth's crust becomes a cooler solid
- B. Earth's mantles become a warmer semiliquid
- C. Earth's mantle becomes cooler and solid.

10. When the force of subduction and gravity moves a lithospheric plate downward into a trench and pulls it away from a ridge.

- A. Sea Floor Spreading
- B. Subduction
- C. Ridge Push
- D. Slab Pull