

L7 Guiding Question Review (H89)

- Answer each of the guiding questions.
- Make a claim
 - Usually a statement of fact that answers the question, or
 - A statement that states a relationship between two ideas.
- Support with evidence
 - Use lab data and ideas!

How do rocks change when earth's plates move?

- **Claim:** Rocks can bend or break when earth's plates move.
- **Evidence:**
 - Rocks near the earth's surface will break because they are cooler. This was demonstrated when we broke a cold caramel.
 - Rocks within earth (i.e. mantle) will bend because the heat makes them more ductile.

How do rocks change when earth's plates move?

- **Claim:** Rocks can bend or break when earth's plates move.
- **Evidence (2):**
 - Plates move rocks from the surface to earth's interior causes these different changes to occur.

How does force relate to plate movement?

- **Claim:** Large forces are needed to move plates due to the friction between the plates.
- **Evidence:**
 - In our lab we learned that as friction increases the amount of force needed to move the plates increases.
 - As plates move past each other, friction is generated by rocks grinding against each other and becoming "stuck."

How does force relate to plate movement?

- **Claim:** Large forces are needed to move plates due to the friction between the plates.
- **Evidence (2):**
 - The more friction that is generated, the more force that is needed to overcome the friction.

How are earthquakes explained by plate movement?

- **Claim:** The movement of plates is the cause of most earthquakes.
- **Evidence:**
 - As plates move past each other, they can become “stuck.” This generates friction.
 - When the force of the moving plate is greater than the amount of friction, the plate suddenly moves causing an earthquake.