

Name _____

Earthquakes!



Vocabulary

- _____: the study of earthquakes
- _____: person who studies earthquake

What are earthquakes?

- Earthquake: a _____ of the Earth caused by _____
 - Occur at the surface or deep underground
 - _____: places where a lot of _____ are located

Where do earthquakes occur?

- Remember that plates move in different _____ and at different _____.
- They interact at _____.
- _____: _____ in the Earth's crust due to sliding tectonic plates
 - 3 types: reverse, normal, and strike-slip
- Some earthquakes occur in faults in the _____ of plates, but most occur at the _____.

Label the **types of faults** and the **boundary types** that correspond with them.



Type of Fault:

Boundary Type:



Type of Fault:

Boundary Type:



Type of Fault:

Boundary Type:

When plates move, what happens to the rocks?

- The rocks in the plates undergo _____ (a change in rock shape due to stress).
- 2 types: _____ deformation and _____ deformation.
 - **Plastic deformation:** _____ like a piece of molded clay.
 - _____ cause earthquakes.
 - **Elastic deformation:** rocks _____ to a point, then _____. When they break, they _____.
 - _____: when the pieces return to their unstretched shape. This causes _____.

Answers:

- Seismology
- Seismologist
- Vibration --- breaking rocks
 - Earthquake zone, earthquakes (or faults)
- Directions --- speeds
- Faults
- Faults --- breaks
- Middle --- Boundaries
- Normal --- divergent
- Reverse --- convergent
- Strike-slip --- transform

This part is not required!!!

- Deformation
- Plastic --- elastic
- Folded
- Does not
- Bend --- Break --- Vibrate
- Rebound --- earthquakes