Name: Schaub

Date: _____

Block: _____

Earthquake: result from a rupture of rocks along a fault (fracture in earths crust). Energy is released in the form of seismic waves.

Stress: the force applied to the material

ex: compression, tension, shearing

Strain: ______the deformation or displacement of material that results ______from an applied stress



Stress causes strain

Folds: Folding – this occurs when rock responds to stress by becoming permanently deformed without breaking. Folds appear as a wavelike structures in rock layers.

Seismic Waves: <u>When an earthquake occurs, seismic waves radiate outward in all directions from</u> the focus. Earthquakes that cause the most damage usually have a shallow focus.

This means that they are not very deep under the ground – within 43.5 miles from the earth's surface. Types of Breaks in rocks:

Fracture: when there is no movement in the rocks along either side of a break.

Fault: when the rocks move after breaking



Elastic Rebound Theory: rocks on each side of a fault are moving slowly, and when the rocks are stressed to a certain point, they will fracture, separate at their weakest point, and spring back to their original shape, or rebound.

Aftershock: smaller tremors that can be felt after an earthquake.

Focus: the point at which the slippage first occurs

Epicenter: the point on earths surface directy above the focus

Three types of seismic waves:

Primary Waves: P waves travel faster than other seismic waves and hence are the first signal from an earthquake to arrive at any affected location or at a seismograph. P waves may be transmitted through gases, liquids, or solids.

