

# Earthquake Notes

An Earthquake is the \_\_\_\_\_ produced when \_\_\_\_\_ . The movement of the ground is caused by \_\_\_\_\_ released by rocks \_\_\_\_\_ along the faults.

## Causes of Earthquakes

A Fault is a \_\_\_\_\_ where a rock not only breaks but also moves along either side of the break.

## Types of Faults

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### Normal Faults

Normal Faults are created when tension \_\_\_\_\_ rocks. Rock \_\_\_\_\_ the fault surface \_\_\_\_\_ in relation to the rock below the fault surface.

Ex: Sierra Nevadas

Draw an Example:

### Reverse Fault

A Reverse Fault is a \_\_\_\_\_ in rocks where rocks \_\_\_\_\_ the fault surface \_\_\_\_\_ over rocks that are below the fault surface.

Ex: Himalaya Mountains

Draw an Example:

### Strike Slip Fault

A Strike-Slip Fault is a break in rocks where rocks on either side of the fault move \_\_\_\_\_ without much \_\_\_\_\_ movement.

Ex: San Andreas Fault

Draw and Example:

## Types of Seismic Waves

- Seismic waves are \_\_\_\_\_ that make the ground quake during an earthquake.
- Focus is the \_\_\_\_\_ where movement energy is \_\_\_\_\_.
- Seismic waves are produced and travel \_\_\_\_\_.
- Primary waves or (\_\_\_\_\_) are waves of energy that travel through Earth by \_\_\_\_\_ in rocks in the \_\_\_\_\_ the wave is traveling. P waves travel \_\_\_\_\_.
- Secondary waves or (\_\_\_\_\_) are waves of energy that travel through Earth by causing particles in the rocks to move at \_\_\_\_\_ to the direction of the wave.
- Epicenter is the \_\_\_\_\_ directly above the earthquake's \_\_\_\_\_.
- Surface waves (\_\_\_\_\_) are the waves of energy that reach the Earth's \_\_\_\_\_ from the epicenter in all \_\_\_\_\_.
- Surface waves cause the \_\_\_\_\_ and are the \_\_\_\_\_ waves.

## Measuring Earthquakes

- A seismologist is a scientist who studies \_\_\_\_\_.
- A seismograph is the \_\_\_\_\_ the primary, secondary, and surface waves.
- Magnitude is the \_\_\_\_\_ by an Earthquake. The height of the lines is traced on paper of the Seismograph is a measure of the energy released.
- The Richter Scale is the \_\_\_\_\_ seismologists use \_\_\_\_\_ earthquake \_\_\_\_\_.

## Tsunamis

Tsunamis are \_\_\_\_\_ generated by earthquakes called \_\_\_\_\_.