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## Earthquake Movements

- All natural earthquakes occur in the lithosphere
- Seismic waves studies observe a full picture of the layered interior
- An earthquake is simply just shaking of earth crust
- It is caused due to the energy released, which triggers waves that travels in all directions
- The emanation of energy occurs along fault
- A fault is a sharp break in the crustal rocks

► Earthquake waves are of two

P waves are also known as primary waves. They are the first wave to arrive at the surface.

\* Seismographs are ~~are~~ set up after the happening of Earthquake and they are called

\* All Earthquakes are different in their intensity and magnitude. The ~~best~~ instrument for the measurement of the vibration is known as Seismograph.

\* Richter scale is used to measure the magnitude of the Earthquake.

## Volcanoes

1. What are volcanoes?

Ans) A volcano is a landform, a mountain where molten rocks erupt through the surface of the planet. The volcano mountain, <sup>open</sup> downward to the pool of molten rocks under earth the surface of earth. Pressure ~~builds~~ builds up the surface of the surface of earth's crust. This is the reason why volcano erupts. Gases and igneous rocks shoot up and splash over or bill the air with lava fragments. The volcanic ~~erupt~~ eruption can cause hot ash, lateral blasts and lava flow, mud.

## Formation of volcanoes

A volcano ~~erupted~~ mountain is formed by the surface eruption.

born within the Earth's Upper Mantle.

The magma that erupts to the surface and forms a lava flow that deposits ash. As the volcano continues to erupt new layers of lava is added to the surface accumulating to form a ~~new~~ volcano.

### Different stages of volcano

They tend to be conical although there are a variety of forms depending upon

- \* The nature of the material erupted
- \* The type of eruption
- \* The amount of change since the eruption

Volcano are divided into three types -

1. Active volcanoes - These volcanoes that have erupted recently. Empty Etna ~~Mount~~ and Empty Stromboli of the Mediterranean Sea

Dormant volcanoes :- This type of volcanoes are quite for a long time but so signs that they could erupt again. For ex - Vesuvius

Extinct volcanoes :- An extinct volcano is ~~one~~ a volcano that no one expects will ever have another eruption.

### Worksheet

1. Which of the following volcano is made of rocky particles about the size of a grain of sand.

Ans) Volcanic Dust

2. Which type of rock would you expect from magma

Ans) Igneous

3. Before the lava reaches the surface the molten material is called Magma
4. The ring of fire refers to the Volcanoes that are located at the Border of the Pacific and surrounding and continents
5. What is the most abundant gas associated with volcanic ~~with~~ Activity  
Carbon Dioxide
6. A volcano is a mountain or hill formed around the crack in the Earth's crust
7. The hot rock that flows down the sides of the volcano is

Ans) lava

8. The opening created in the top of a volcano after a volcanic eruption is a

Ans) crater