

WELCOME TO SOCIAL SCIENCE

SUBJECT: (GEOGRAPHY)

CHAPTER NUMBER: 3

CHAPTER NAME: THE CHANGING FACE OF THE

EARTH

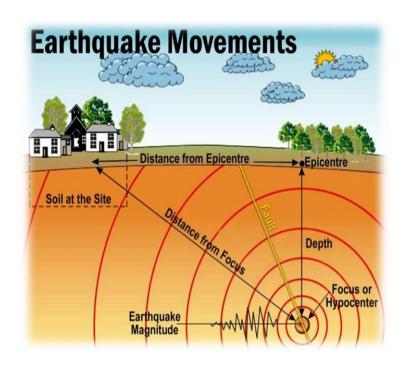
CHANGING YOUR TOMORROW

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- •All natural earthquakes occur in the lithosphere.
- •Seismic waves studies offer a full picture of the layered interior.
- •An earthquake is, simply put, shaking of the earth's crust.
- •It is caused due to the energy release, which triggers waves that travel in all directions.
- •The emanation of energy occurs along a fault.
- •A fault is a sharp break in the crustal rocks.

Earthquake waves are of two types

P- Waves

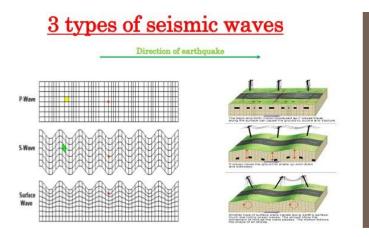
P-waves are also known as the Primary waves. They are the first waves to arrive at the surface

S- Waves

•S- Waves arrive after some time after the happening of Earthquake and they are called secondary waves.

All earthquakes are different in their intensity and magnitude. The instrument for the measurement of the vibrations is known as Seismograph

Richter scale is used to measure the magnitude of the earthquake



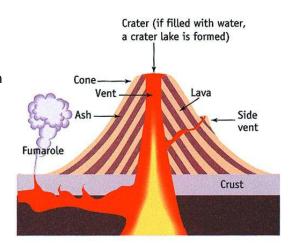


https://www.britannica.com/video/181934/rock-vibrations-Earth-earthquake-waves-P-surface

What are Volcanoes?

A volcano is a landform, a mountain, where molten rocks erupt through the surface of the planet. The volcano mountain opens downwards to a pool of molten rocks underneath the surface of the earth.

On many volcanoes, there is a crater, which is a bowlshaped depression at the top of a volcano caused by past and usually spanning about a half a mile in diameter or less, and can fill with water to form a crater lake.



Volcanoes are categorized into three main categories:

- Active
- Dormant
- Extinct

An *active volcano* is one which is recently erupted and there is a possibility that it may erupt soon. Example:- Mt.Etna and Mt. stromboli

A *dormant volcano* is one which has not erupted in a long time but there is a possibility it can erupt in the future. Example:- Mt. Vesuvius

An *extinct volcano* is one which has erupted thousands of years ago and there's no possibility of an eruption. Example:- Mt. Kilimanjaro in Tanzania.

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