

**Year  
5**

# Earthquakes and Volcanoes

**Our Planet**

## Ring of fire



The Ring of Fire is a region around much of the rim of the Pacific Ocean where many volcanic eruptions and earthquakes occur.

## Charles Francis Richter

Richter is most famous as the creator of the Richter magnitude scale, which, until the development of the moment magnitude scale in 1979, quantified the size of earthquakes.



## Key learning

Describe the structure of Earth.

Locate major earthquake zones.

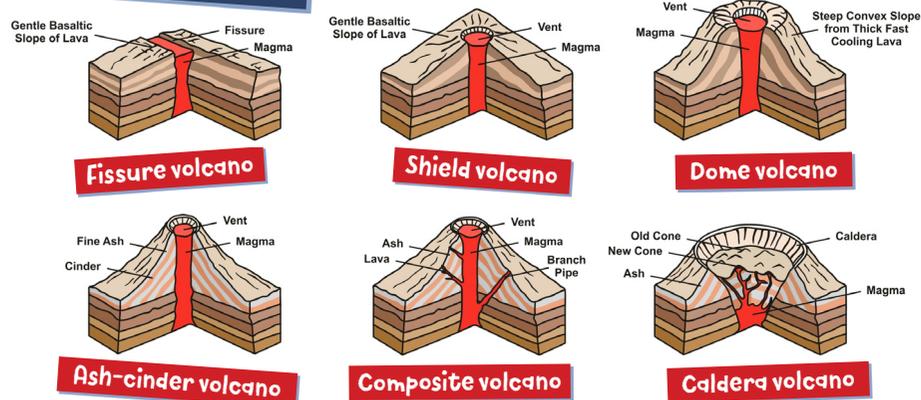
Name and locate famous volcanoes. Describe the features of a volcano and investigate different types of volcanoes.

Understand the effect that volcanoes and earthquakes have on their locations.

Know who Charles Richter was and his importance in the field of Earthquakes.

Write a report about a journey to the 'Ring of Fire'.

## Types of Volcano



## Geographical Vocabulary

**Tectonic Plate:** Parts of the Earth's surface that move against each other.

**Fault:** A fracture along the blocks of the Earth's crust.

**Crust:** The outermost layer of an earthquake

**Mantle:** Part of the Earth's interior between the metallic outer core and the crust.

**Core:** In inner most part of the Earth.

**Lava:** Hot molten rock erupted from a volcano.

**Erupt:** A volcano becoming active and ejecting lava, ash and gases.

**Epicentre:** The point on the Earth's surface vertically above the focus of an earthquake.

**Volcano:** A mountain or hill with a crater or vent through which lava, rock fragments, hot vapour and gases are or have been passes through from the earth's crust.

**Earthquake:** A sudden violent shaking of the ground, as a result of movements within the earth's crust.

**Tsunami:** A long, high sea wave caused by an earthquake or other disturbance.

## Volcanoes around the world

Mountain	Location	Height
Mount St. Helens	United States of America	2,550m
Krakatoa	Sundara Strait, Indonesia	813m
Mount Vesuvius	Naples, Italy	1281m
Mauna Loa	Hawaii, United States of America	4169m
Mount Fuji	Japan	3776m