

SHAKE, RATTLE AND BOOM

Year 4 Knowledge Organiser



Overview

Our earth is dynamic and ever-changing. In this unit children will explore the dynamism of the earth, learning about its structure, look particularly at the causes and distribution of earthquakes and volcanoes and their effects on landscape and people. They will be introduced to the 'Pacific Ring of Fire', the most active region on earth, and consider why people choose to live on the flanks of volcanoes and in earthquake zones when both can be life-threatening. They will learn that volcanoes have existed throughout geological time, and that there are several different types.

Key Vocabulary

Earthquake - the shaking, rolling or sudden shock of the Earth's surface

Volcano - a mountain that opens downward to a pool of molten rock below the surface of the Earth

Tectonic plate - pieces of land that connect together on the Earth's outer shell

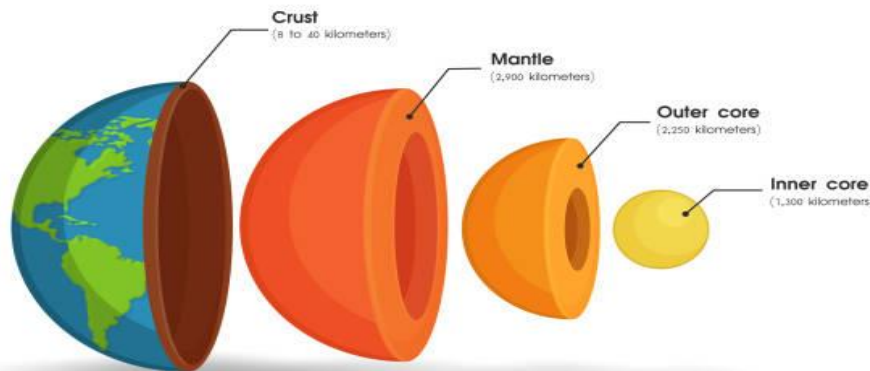
Rock strata - the stacked-up layers of sedimentary rocks.

Core - very hot, dense centre of our planet. A ball-shaped core lies beneath the cool, brittle crust and mostly-solid mantle.

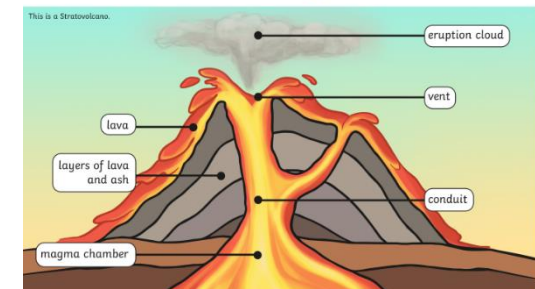
What you will learn?

- How to describe and understand the key aspects of volcanoes and earthquakes
- Understand that the distribution of earthquakes and volcanoes follow a pattern
- Be introduced to plate tectonics
- Learn about the 'Pacific Ring of Fire'

STRUCTURE OF THE EARTH



A Cross-Section of a Volcano



(Credit: No name provided, USGS, Public domain.)