

# Knowledge Organiser – Earthquakes, Mountains and Volcanoes

Subject Specific Vocabulary
tectonic plates
crust
mantle
outer core
inner core
earthquakes
epicentre
Magnitude Scale
mountains
continental plates
orogeny
volcanoes
viscous
magma

Key Knowledge
- Know tectonic plates sit on the mantle and are affected by the heat from the outer and inner core.
- Know earthquakes occur at plate boundaries (fault lines) and produce shock waves as seismic waves.
- Know there are different types of plate movements: pull apart, scrape, and collide, which can cause volcanoes and earthquakes.
- Know mountains are formed through processes like folding and fault-block movements, with orogeny describing this formation.
- Know volcanoes can be classified into four types: fissure, shield, stratovolcano, and caldera, each with unique characteristics based on lava viscosity and eruption style.

Learning Objectives
To know what are tectonic plates and where they are found.
To know how tectonic plates move and what happens when they meet.
To know what causes an earthquake and what's the effect.
To know how mountains are formed.
To know how volcanoes work.

Books to help me with my understanding

