

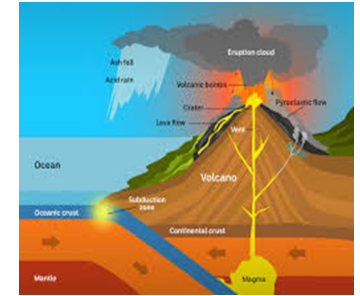
Year 5—Autumn — Extreme Earth — Knowledge Organiser

Pressure	A steady force upon a surface
Crust	Outer layer of the planet
Mantel	A layer of rock between the crust and the outer core
Northern Southern	North of the hemisphere South of the hemisphere
Core	The part of the earth in the middle of our planet
Eruption	Pouring out of fumes or lave
Formation	The way in which a thing is formed (in this case volcanoes)
Boundary	Something that marks the edge
Tectonic Plate	Earth's outer layer is made up of large moving pieces called plates
Hemisphere	Hemisphere means half (hemi) the Earth (sphere)
Equator	The equator divides the Earth in the northern and southern hemisphere
Seismic Waves	An elastic wave in the earth produced by an earthquake

What factors affect the level of death and destruction from earthquakes?

- The magnitude of the earthquake (strength)
- Where it happened
- Time of day
- How rich or poor the county is.

Can you think of when destruction would be highest?



What is the Ring of Fire?

It is a path along the Pacific Ocean with active volcanoes and frequent earthquakes. 90% of the world's earthquakes occur here.

Which continents are affected by the Ring of Fire?

North America, South America, Australasia and Asia

How are volcanoes formed?

Volcanoes are formed when magma from within the Earth's upper mantle works its way to the surface. At the surface, it erupts to form lava flows and ash deposits. Over time as the volcano continues to erupt, it will get bigger and bigger

What causes earthquakes?

Earthquakes are usually caused when rock underground suddenly breaks along the fault. This releases energy called seismic waves that make the ground shake.

Or

When two blocks of rock or two plates are rubbing against each other, they stick a little. They don't just slide smoothly; the rocks catch on each other. The rocks are still pushing against each other, but not moving. After a while, the rocks

How are volcanoes good for the planet?

The lava and ash provide nutrients for the soil which is good for agriculture, the heat from the volcanoes generates geothermal energy and it can also attract tourists which brings income