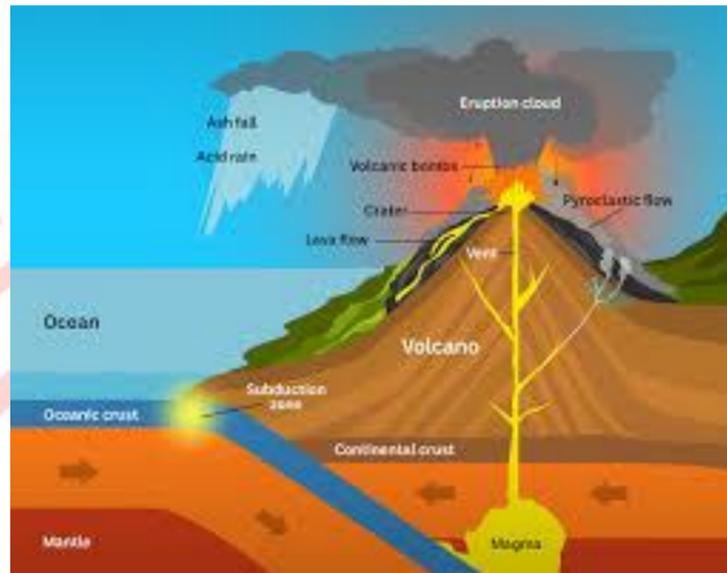


By the end of this project, I will know the answers to these questions

What are tectonic plates?	They are the crust of the earth split into parts - a bit like a jigsaw. They are able to move.
What is the ring of fire?	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 a fault. This sudden release of energy causes the seismic waves that make the ground shake. 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 break because of all the pressure that's built up
How are countries affected by volcanoes and earthquakes	Here we will look in detail at the different impacts, including physical impacts on buildings etc but also impacts on communities
Greater Depth	Explain how the impact from different disasters impacts different communities If you had live in either and earthquake zone or near an volcano, which would you choose and why?



Skills I will require and apply:

- Understanding and using atlases to locate the Ring of Fire, and countries and continents impacted
- Using subject specific vocabulary: northern and southern hemisphere, latitude, longitude and equator
- Geographical skills to locate key locations
- Identify the difference between natural and human features
- Study different recounts and pieces of evidence

To hook me into this project I will:
Take part in a Volcanoes VR workshop

Experiences that will help me remember:
Volcano experiments, including making own volcanic eruptions
Carrying out earthquake drills
Teaching session for parents to end the unit

Vocabulary	Tier 2 and Tier 3		
Continents	Any of the world's main expanses of land (seven continents)	Mantel	A layer of rock between the crust and the outer core
Crust	Outer layer of the planet	Active volcano	A volcano which has had at least one eruption during the past 10,000 years
Equator	The equator divides the Earth in the norther and southern hemisphere	Tectonic Plate	Earth's outer layers is made up of large moving pieces called plates
Dormant	A dormant volcano is an active volcano that is not erupting but supposed to erupt again	Hemisphere	Hemisphere means half (hemi) the earth (sphere)
Earth's Core	The part of the earth in the middle of our planet	Vortex	A mass of wind or water that spins around so fast that it pulls objects down
Eruption	Pouring out of fumes or lava	Seismic waves	An elastic wave in the earth produced by an earthquake



Texts/books I will be using in this project:

Escape from Pompeii - Christina Balit

I survived the destruction of Pompeii - Lauren Tarshis

Life Skills

Environmental responsibility - how do our actions affect the world in which we live in?



Metacognition

What am I being asked to do? Which strategies will I use? Are there any strategies that I have used before that might be useful?