

Sequence of learning					
Space	Space	Scale, place and space	Place, space and scale	Space and place	Scale
How is the Earth structured? How are volcanoes formed?	Where do volcanoes occur and why? Locate Mount Vesuvius, Eyjafjallajökull and Kīlauea using 4 figure grid ref. Pacific ring of fire and map	What impact do volcanoes have on landscapes and human geography and how does this contribute to tourism? (Eyjafjallajökull, hot springs in Iceland, Mount Vesuvius and Pompeii)	How is volcanic activity supporting developments in renewable energy?  Kīlauea in Hawaii	How does volcanic activity create diamonds?  Cullinan mine- South Africa	Why do people chose to live near volcanoes? Tourism Job opportunities (tourism, mines, renewables)  Working towards expert outcome

**Vocabulary**

Mountain, valley, temperature, source, landscape, features, settlement, land use, issue, industry, manufacture, raw material, energy, fuel, power, natural resources, latitude, longitude, co-ordinate, 4 figure grid reference, physical map.

**Intended outcomes:**

- The layers of the earth are the inner core, outer core, mantle and crust.
- The Earths crust is made up of tectonic plates.
- Tectonic plates collide forcing earth up to create mountains.
- During this collision if magma escapes from the mantle a volcano (volcanic mountain will be formed).
- Volcanoes occur on the tectonic plate boundaries- see ring of fire map.
- Icelands most famous volcano- Eyjafjallajökull (pronounce: "Ei-ya-fyat-LA-yer-kittle) erupted in 2010. It is famous for its hot springs.
- Mount Vesuvius- located in Pompeii, Italy- erupted most famously in 79 A.D. it is a famous tourist destination.
- Volcanoes can be used as a source of geothermal energy. Kīlauea in Hawaii is being used for this.
- Diamonds are formed in the mantle and delivered to the surface by deep-source volcanic eruptions. Cullinan mine in South Africa has a volcanic neck which allows diamond mining to take place.

**Expert outcome:**

Why should I live near a volcano?  
Literacy- sell a home near a volcano

**Previous Learning:**

Locating the continents and the oceans in Year 2. Builds on learning about tourism that the children have done throughout Year 3.

**Preparing for:**

Further learning about natural disasters in Year 4- floods. Preparing children for knowledge about locational land use ready for learning about rivers and mountains in Year 4. Cross curricular links with history in Year 4- learning about the Romans. Preparing for learning about renewable energy in Year

**Resources and actions**

- <https://www.hawaiielectric.com/clean-energy-hawaii/our-clean-energy-portfolio/renewable-energy--sources/geothermal>- hawaii geothermal info
- <https://www.youtube.com/watch?v=meEYXalzVwI>- diamond mine tour
- <http://www.landforms.eu/Lothian/volcanic%20neck.htm>- volcanic neck