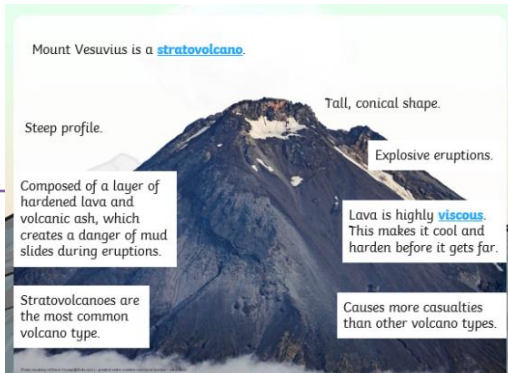


What makes the Earth angry?

What we need to know:

- Where in the world are we – understand continents and oceans of the world and Europe in relation to UK
- Understand how to read grid references on a map
- Compare physical geography of UK and Italy
- Explore Earthquakes and Volcanoes occurring in Europe and compare them to likely areas of the same in other parts of the world
- Understand the causes of Earthquakes and Volcanoes

Natural Disasters



Did you know?

- Earthquakes can happen in any weather
- Earthquakes can cause huge waves in the ocean which are called Tsunami
- Movements of tectonic plates has formed large mountainous range such as The Himalayas
- The highest Earthquake occurrences in Europe is in Italy, Greece and Romania

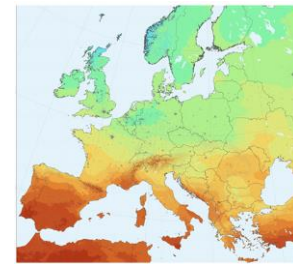
Key Vocabulary:

Continents	A continent is one of Earth's seven main divisions of the land
Europe	The continent where UK belongs to
Grid References	They are used to locate a specific grid square on a map
Physical geography	Natural features of the Earth's surface
Natural Disasters	Major adverse events resulting from natural processes of Earth
Volcano	An opening in Earth's crust that allows molten rock(magma) from beneath to reach Earth's surface and erupts in the form of lava
Earthquake	Shaking and vibrating of the Earth's crust due to movement of Earth's plates
Tectonic plate	Earth's crust as a large slab that move over a liquid mantle
Mantle	A layer within the Earth between the crust and the core where the magma comes from

Understanding Continents and location of Europe



Comparing Physical Geography of Italy and UK



What makes the Earth angry?

What are we learning:

- ☞ To identify effect of air resistance
- ☞ To identify effects of water resistance
- ☞ To identify effect of friction
- ☞ To investigate how levers work
- ☞ To investigate how pulleys work and how the number of pulleys change the effort required

Investigations

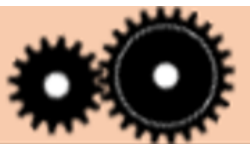
Design, make and test parachutes



Test water resistance when swimming (during Y5 swimming lessons) and build boats and test in a water trough



Recognise the impact of mechanisms on forces when using pulleys, levers and gears during technology lesson (Lego WeDo)



Enquiry

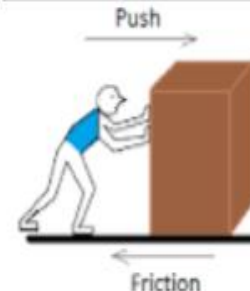
- ☞ What is air resistance and how can we understand it?
- ☞ What is water resistance and how can we investigate this?
- ☞ How do levers work?
- ☞ How do pulleys work?
- ☞ How does ground friction affect movement? .

Key Vocabulary

Force	A push or pull upon a object
Air Resistance	Air resistance slows down moving objects, because air slows you down as you move through it .To travel faster through the air, things need to be streamlined.
Water Resistance	Water resistance slows down moving objects, because water slows you down as you move through it. To travel faster through the water, things need to be streamlined.
Friction	Friction happens when two surfaces touch each other. Friction gives us grip. Friction produces heat. Rougher surfaces slow things down a lot. Smoother surfaces don't slow things down as much.
Streamlined	A shape that presents least resistance to air or water
Lever	A rigid bar resting on a pivot that is used to move a heavy or firmly fixed load

Diagrams and symbols

Diagrams of forces in action



Gravity pulls us towards the centre of the Earth.