## What will I learn by the end?

- I will know the names of different mountain ranges in the UK and anound the morld
- I will know the structure of the Earth and identify the layers.
- I will know what tectonic plates are and their role in earthquakes, volcanoes and mountain formation
- I mill know ham different mountains are formed.
- I will be able to describe what a mountaineer is and explore the impact of humans on mountain ranges.
- To explore hom humans, use and interact with mountains in our ervironment
- Ta knom ham earthquakes are triggered and the effect on human life.


## Concept links/Prion Knowledge

- To be able to locate countries, capital cities and envinonmental regions on monld map,
- To knom the mair mountain ranges in Italy.
- To name active uolcanoes in Italy.
- Understand that the Earth has different layers mithin its structure.
- Ta knom that there are tectonic plates around the morld

Physical geography- To learn hom tectonic plates cause earthquakes and their role in the formation of mountains, and valcanoes.

Human geography- To learn about how humans use mountains and the effect this has on the natural envinorments, To discuss, the mays in which these natural formations can be conserved and protected.

| Sticky learning |  |
| :---: | :---: |
| Nem Knowledge <br> - To name mountair ranges around the morld <br> - To describe and identify the different layens, of the Earths structure. <br> - To know what the different types of mountains are and hom they are formed. <br> - To know the processes that lead to change in a mountain environment over time. <br> - To name and identify the sever summits of the world. <br> - To know hom we can protect World Mountains. <br> - To knom hom we car protect ourselves from the effects of earthquakes. <br> - To be able to describe, and identify tectonic plates on a map | New Skills <br> - To use topographical maps to identify mountains. <br> - Use different types of thematic maps in atlases and on the computer to locate places, features. <br> - Read and use compass points and bearings to. 10 degrees, four and six, figure grid references, keys and colour coding torepresent information on a map. <br> - Relate digital images to maps. |



## Nem vocabulary

Earthquake -movements, fractures and vibrations, in the earth's crust as tectonic plates move

Mantle - the layen of the earth's, structure between the crust and the cone

Crust - The Earth's crust is its outer layen

Plate boundary- where two tectonic plates meet. There are twa types, deconstructive and constructive

Inner core - hot solid layer of the Earth made from inon and nickel.

Outer core - thick liquid layer of the Earth between the mantle and inner cone.

Magma - molten rock that is formed in very hot conditions inside the earth

Fault lines, - a long crack in the surface of the earth. Earthquakes usually occur along fault lines

Richter scale - a scale to measure the magnitude of an earthquake

Summit - the highest point of a mountain, also known as a peak.

## The earth's structure:

The Earth has four main layers : the inner core, the outer core, the mantle and the crust.

The mantle is semi-molten and about $3,000 \mathrm{~km}$ thick. The closer the mantle is to the core, the more liquid it is.

The crust is the rocky outer layer. It is thin compared to the other sections, approximately 5 to 70 km thick. If the Earth was scaled down to the size of an apple, the crust would be about the thickness of the apple skin.



Fault block mountains (Sierra Nevada)


Volcanic mountains (Mount Vesurius)

## Types of mountains



Fold mountains (The Alps)


Plateau mountains (Allegheny)


Dome mountains (Devils, tomer)

