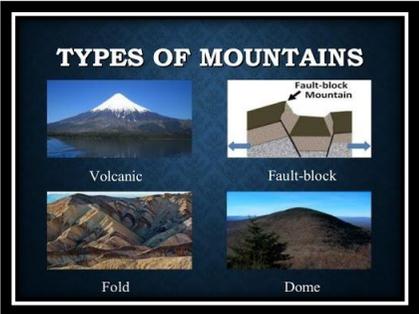


Extreme Earth – Mountains & Volcanoes

Geography Knowledge Organiser Year 5 Terms 3 & 4



Key Knowledge

What I should already know

Be able to use world maps and atlases to locate places around the world.
In Geography, physical features are landmarks made by nature. Mountains and volcanoes are natural landforms.

What will I know by the end of the unit?

- The surface of Earth is made up of lots of different sections called tectonic plates, and mountains can be formed in different ways when these plates collide or when magma can get from the centre of the earth up to the surface.
- Some mountains form when volcanoes keep erupting. The lava builds up and makes mountains
- A mountain environment is a barren, rocky area of land with peaks of 8,000 metres or more above sea level.
- The climate changes as you move up mountains, so plants and animals have had to adapt live in these conditions.
- Some of the most famous mountain ranges in the world include: The Himalayans (Asia), The Alps (Europe) The Atlas (Africa), The Andes (South America) and The Rockies (North America).
- A famous volcanic eruption was Mount Vesuvius in Italy. In AD 79, this volcano devastated the nearby cities of Pompeii and Herculaneum. Thousands of people are thought to have died and the remains of many people were preserved by the ash.

Key vocabulary

Climates- the weather conditions prevailing in an area in general or over a long period.

Crater- a large bowl-shaped cavity in the ground or on a volcano typically caused by an explosion.

Dome mountain- Dome mountains are the result of a great amount of melted rock (magma) pushing its way up under the earth crust

Environments- the surroundings or conditions in which a person, animal, or plant lives or operates

Fault-block mountain- These mountains form when faults or cracks in the earth's crust force some materials or blocks of rock up and others down.

Fold mountain- Fold mountains are formed when two plates collide head on, and their edges crumbled together

Formation (mountain)- refers to the geological processes that underlie the formation of mountains

Lava- hot molten or semi-fluid rock erupted from a volcano or fissure, or solid rock resulting from cooling of this

Magma- hot fluid below or within the earth's crust from which lava and other igneous rock is formed on cooling.

Magma chamber- a reservoir of magma within the earth's crust beneath a volcano.

Main vents- the weak point in the Earth's crust where hot magma has been able to rise from the magma chamber and reach the surface

Mount Etna- is an active volcano on the east coast of Sicily, Italy.

Mount Vesuvius- a volcano in southwestern Italy on the Mediterranean coast

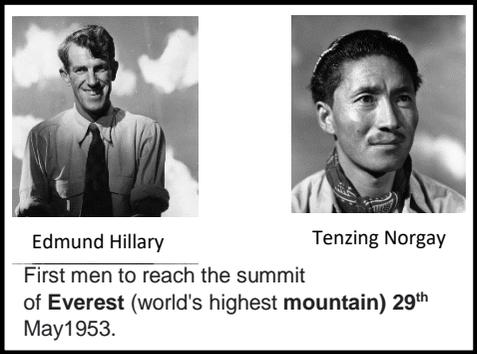
Pompeii- an ancient city in Italy, southeast of Naples: buried by an eruption of Vesuvius (79 AD)

Key questions

- How are mountains and volcanoes formed?
- What are the similarities and differences between how mountain environments.
- Where are the most famous mountain ranges in the world located?
- What affect can volcanic eruptions have on humans?

Interesting Facts

- The most dangerous volcano known today is Mount Vesuvius
- Volcanoes Erupt because of escaping Magma
- Volcanoes can be Active, Dormant or Extinct
- There are 20 Volcanoes erupting right now
- The tallest volcano in the Solar System isn't on Earth
- The highest mountain on Earth is in Nepal. It's called Mount Everest (8,848 metres)
- The highest mountain in the UK is Ben Nevis, which is in Scotland
- Mount Rushmore is in America, and has been carved into a culture in memoir of four of their most famous presidents



Famous Mountains & Volcanoes

- Mount Vesuvius (Italy/Europe)
- Krakatoa (Indonesia /Asia)
- Mount St. Helens (Washington/USA)
- Mount Tambora (Indonesia/Asia)
- Mauna Loa (Hawaii/USA)
- Eyjafjallajokull (Iceland/Europe)
- Mount Pelee (France/Europe)
- Mount Etna (Italy/Europe)
- Mount Everest (Nepal/Asia)

Useful web links:

- <https://www.bbc.co.uk/bitesize/topics/z849q6f/articles/zd9cxyc>
- https://www.youtube.com/watch?v=V8https://www.youtube.com/watch?v=g_vRnFqDwYA63xROY2qk (mountains are formed)
- https://www.youtube.com/watch?v=g_vRnFqDwYA
- https://www.youtube.com/watch?v=dY_3ggKg0Bc (time-lapse of Vesuvius)