Misty Mountain Sierra

Mountains around the world

Range

Himalayas

Karakoram

Andes

Eastern Rift

Eastern Rift

Armenian

Highlands

Olympus

Snowy

Mountains

Mountains

Name

Mount Everest

Κ2

Aconcagua

Mount

Kilimanjaro Mount Kenya

Mount Ararat

Mount Olympus

Mount

Kosciuszko

A mountain is a large, rocky raised part of the Earth's surface that is much higher than a hill. A mountain's highest point is called its peak, or summit. Mountains are 610m in height or taller. They are usually found in groups called ranges.



San Juan Mountains Colorado

Height

8848m

8611m

6962m

5895m

5199m 5137m

2917m

2228m

Continent

Asia

Asia

South

America

Africa

Africa

Europe

Europe

Australia

Mountain formation

Mountains form over millions of years. They are made when the Earth's tectonic plates push together or move apart. Mountains are also formed when magma underneath the Earth's crust pushes large areas of land upwards. There are six types of mountain.



fold mountain



fault-block mountain

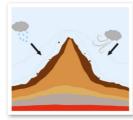




dome mountain







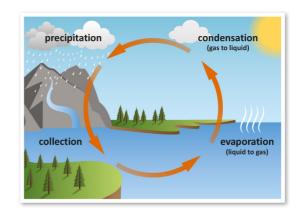
erosional mountain

Climate

At the bottom of a mountain, in the lowland area, the temperature can be mild. Many different plants and trees grow, providing food for a variety of animals. Higher up the mountain, in the upland area, it can be very cold and windy. There are fewer plants and animals and those that live there are adapted to survive in the harsh conditions. Mountain weather can change very quickly, from clear skies to intense thunderstorms and blizzards.

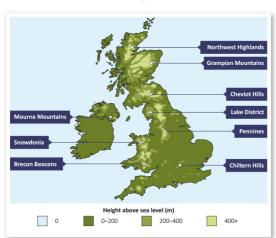
The water cycle

Water cannot be made. It is constantly recycled through a process called the water cycle. Water in seas, oceans, rivers and lakes is heated by the Sun and evaporates to form water vapour that rises into the air. The water vapour condenses as it cools and changes back into tiny drops of water, forming clouds. The clouds get blown over high ground, where the water falls back to Earth as rain, snow, sleet or hail, called precipitation. The rainwater runs off the land into rivers and streams and travels back to the sea. The cycle then starts again.



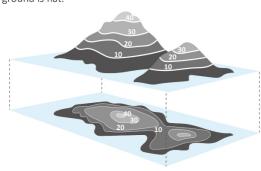
Ben Nevis Grampian Europe 1345m Mountains

UK mountain ranges and hills



Contour lines

Contour lines are drawn on a map to show the shape of the land. Contour lines join together points at the same height above sea level. The height is shown in metres, at 5 or 10m intervals. If contour lines are close together, it means the ground is steep. If they are far apart, the ground is flat.



Living at high altitude

Living at high altitude can be difficult. The air is thinner and does not contain as much oxygen, making it harder to breathe. It is much colder and can be very windy. There are fewer plants and animals, and those that make their homes at high altitudes have special adaptations.

Plants

Some plant species have adapted to live at high altitudes, including grasses, mosses and flowering plants. They have adapted to grow in cold temperatures, dry air and have a short growing season. Trees cannot grow at high altitudes because of the cold temperatures and lack of moisture.



alpine fleabane

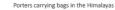
Animals

There are some animals, such as yaks, llamas and mountain goats, that have adapted to live high up mountains. Yaks have a thick layer of body fat and long fur to keep warm. Their lungs and heart are large to provide enough oxygen in their blood.



Himalayan yal

Humans Some humans have adapted to living at high altitudes. To get more oxygen, some people whose families have lived at high altitudes for generations have developed a larger lung capacity and quicker breathing.



Glossary

adaptation	A change in an organism that allows it to better suit its environment.
altitude	The height of an object or point above sea level.
climate	The usual weather patterns of a place.
collection	The process of water gathering in oceans, rivers, lakes and streams.
condensation	The process of a gas cooling and changing into a liquid.
crust	The rocky outer layer of the Earth.
evaporation	The process of a liquid heating up and changing into a gas.
lowland area	An area of land that is usually flat and is not very high above sea level.
magma	Hot molten rock found in the Earth's mantle.
tectonic plate	A large, moving piece of rock that makes up the Earth's crust.
precipitation	Rain, snow, sleet or hail that falls to the ground from clouds.
upland area	Land that is high above sea level.

The Adi tribe

The Adi tribe live in a beautiful and remote area of the Himalayas. Their way of life and culture has been unchanged for hundreds of years. The Adi hunt for food and grow crops. They are well known for making items from cane and bamboo. The Adi believe living things have spirits and give offerings, perform rituals and dance to avoid misfortune. However, the introduction of electricity, machinery and television is changing the way the Adi tribe live, work and spend their time.