



# Mountain High Valley Low



## Entry Task

Using Google Earth and Google Maps to visually explore the world's largest mountain ranges. What can we discover or find out?

From memory, can I locate countries identified in Y3 alongside Portugal, Netherlands, US, Canada and New Zealand?

Can I locate the capital cities of Portugal, Netherlands, US, Canada and New Zealand?

How can weather patterns change in mountainous regions?

Where are the world's major mountains? What climate zones are they in?

Where are the UK's major mountains and hills? Can I locate them on a map identifying contour lines?

How do contour lines help us navigate on a map?

What are the 5 different types of mountains? (fold, fault-block, volcanic, dome, plateau). Can I explore how the different types of mountains were formed?

How have mountain ranges changed over time?

How have animals adapted to live in the climate of mountain habitats?

How can environmental change affect living things and communities?

How does zonation of plant life show physical geography of the world?

What effect does condensation and evaporation have on the Water Cycle?

Can I investigate the physical and human features relating to mountains?

What is the Water Cycle? What are the processes that make the Water Cycle?

Where are the UK's coastlines and major rivers? Can I locate them on a map?

Do materials change state when they are heated and cooled? At what temperature does this happen? (reversible & irreversible)

How has human activity damaged rivers over time? Is this damage reversible or irreversible?

What are solids, liquids and gases? Can I compare and group solids, liquids and gases?

## What to revisit?

Year 3 rocks, plant growth

Year 2 How states can be changed, habitats, plant growth, food chains

## Threads

Navigation, Climate, Reversible and Irreversible, Explore, Community, Adaptation

## Celebration/Evaluation

Children will create a double page spread to explain their understanding of mountains and links to the water cycle.

## Curriculum Passport Challenge

The children will create their own model to explain the Water Cycle.

## Key Vocabulary

As a scientist I will use...

bond, condensation, evaporation, reversible, boiling point, melting point, liquid, gas, thermometer, water cycle, continuous precipitation, transpiration, surface run off process, sublimation, granular, water cycle, water vapour

As a geographer I will use...

Coniferous forest, deciduous forest, reservoir, precipitation, run off, water vapour, alpine, altitude, drainage, elevation, erosion, range, crevasse, erosion, tectonic plates, fold, fault-block, volcanic, dome, plateau

## Big Question

What impact do mountains have on weather and living conditions for humans, plants and animals?

DRIVER SUBJECTS ARE; SCIENCE & GEOGRAPHY