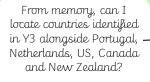
### Entry Task

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



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 worlds major mountains? What <u>climate</u> 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 <u>navigate</u> on a map?

# Mountain High Valley Low



#### 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

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?

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

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

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

## Big Question

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

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?

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

Do materials change state when they are heated and cooled? At what temperature does this happen?

(reversible & irreversible)

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

#### 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

DRIVER SUBJECTS ARE; SCIENCE & GEOGRAPHY