



# Mountains and Erosion

Year 4

Autumn 2

## Study overview

The children will study the key features of mountains and how they are formed. This will involve studying the formation of volcanos and the basic geology of the planet. This will develop their understanding of basic plate tectonics from their work on how oceans formed. This will also revisit the relationship of mountains to rivers in more depth and further develop their understanding of the water cycle. The children will learn how mountains are changed by erosion (both by wind and rain, and also by rivers).

## Key Vocabulary

**Geography:** erosion, slope, face, summit, outcrop, range, dome mountains, fault block, fold mountains, valley, glacier, tectonic plate, plate boundaries,

## National Curriculum Objectives (Geography)

To describe and understand key aspects of:

- physical geography, including: climate zones, biomes and vegetation belts, rivers, mountains, volcanoes and earthquakes, and the water cycle

To use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied

## Knowledge to be gained

To know:

- the location of the major mountain ranges and peaks around the world
- how different types of mountains are formed in different ways
- the basic concept of plate tectonics
- how some cultures of people have adapted to live in the mountains
- how erosion by wind, rain and rivers have changed the look of mountains
- how mountains play their part in the water cycle

## Key Texts

- Running on the Roof of the World by Jess Butterworth
- When the mountain's roared – Jess Butterworth
- Echo Mountain by Lauren Wolk
- Mia's Story by Michael Foreman

## Key Experiences

- Link up with a school in a mountainous area

## Linked learning in English and Grammar

Explanation text – how the Himalayas were formed – Greetings, salutations, first person, persuasive words, present tense

Poetry – erosion poems – rhyming, alliteration, personification

Biography writing (Hillary & Tensing) – present tense, formal tone, third person, paragraphing

## Maths

Addition and subtraction (continued).

Area.

Multiplication and Division.

## Linked learning in Art and Design

A study of the mountain pictures of Katsushika Hokusai

Painting in layers and fine pen edging

## Linked learning in Science

States of matter.

Volcano making with chemical reactions - with bicarbonate of soda.

## Linked learning in History

To learn some key historical events and names in mountaineering history.

## Linked learning in Music

Ukulele lessons.

## PSHE

Celebrating Differences.

## Linked learning in Physical Education

Tag rugby (at the Rugby Club)

## Linked learning in Religious Education

How does the story of Rama and Sita inspire Hindus to follow their dharma?

## Linked learning in Computing

Use of word processors – writing for a publishing purpose (explanation text).

Effective searching.

## Linked learning in MFL

Clothes – getting dressed in France.