



Natural Disasters

Year 5

Spring 1

Study overview

A study of how the global geological systems which create mountains, volcanos and earthquakes. The children will also study global weather systems that create tsunamis, monsoons and Hurricanes. The children will also explore the effect of these occurring within communities around the world. This will all build on the children's learning further down the school on the formation of mountains and how the water cycle works.

Key Vocabulary

Geography: active, aftershock, ash, crater, crust, dormant, earthquake, epicentre, eruption, extinct, faultline, fertile, hemisphere, igneous, lava, magma, magnitude, mantle, metamorphic, molten, plate tectonics, pressure, pyroclastic flow, range, Richter, sedimentary, seismography, structure, summit, tectonic plate, tsunami, upper mantle, valley, vent, volcano

National Curriculum Objectives

Describe and understand key aspects of:

- physical geography, including: climate zones, biomes and vegetation belts, rivers, mountains, volcanoes and earthquakes, and the water cycle
- human geography, including: types of settlement and land use, economic activity including trade links, and the distribution of natural resources including energy, food, minerals and water
- use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied

Knowledge to be gained

To know:

- the processes that give rise to key physical geographical features of the world including: volcanoes, earthquakes and tsunamis
- how physical geography such as mountains are shaped by these phenomenon
- the names and locations of some of the biggest volcanoes and fault lines in the world
- the understand the structure of the planet
- that continents have changed over time due to plate tectonics

Key Texts

- Floodland by Marcus Sedgwick (class text)

Supplementary Texts

- The Jamie Drake Equation by Christopher Edge
- Swimming Against the Storm by Jess Butterworth
- Pompeii: My Story by Sue Reid
- Cosmic by Frank Cottrell-Boyce

Key Experiences

- Trip to National Space Centre in Leicester.

Linked learning in English and Grammar

Biography about the life of an astronaut – subheadings to organise information; adverbials for cohesion; dashes; commas and brackets for parenthesis; using formal tone.

Diary Entry – past tense; first person; informal style; time conjunctions; emotive language; adverbials; chronological order.

Linked learning in Art and Design

Chalk Planets - The children will practise shading techniques, creating a gradual light to dark sphere look with a white side light source. Linking to the Science learning about planets and space.

Discrete learning in Design Technology

Programmable models

The children will use physical computing to explore the concept of selection in programming through the use of the Crumble programming environment. Learners will be introduced to a microcontroller and learn how to connect and program components through the application of their existing programming knowledge.

Linked learning in Science

Children will explore the solar system and its planets, understand the heliocentric model. They will explain Earth's movement in space and how the rotation of the Earth produces night and day.

Linked learning in History

While History is not explicitly taught this half term, children will discuss how ideas about our solar system have developed over time with regards to the geocentric and heliocentric models, considering work from scientists such as Ptolemy, Galileo and Copernicus.

Discrete learning in Music

The children will learn some key features of blues music. They will learn to play the 12-bar blues and improvise with notes from the blues scale.

Discrete learning in PSHE

The class talk about their dreams and goals. They reflect on which jobs they might like to do when they are older. The children look at the similarities and differences between their dreams and goals and someone from a different culture.

Discrete learning in Physical Education

Gymnastics (Counter Balance)- perform routines on apparatus, considering how to create flow between movements.

Netball – refine passing and receiving, defending and marking the opposing player.

Discrete learning in Religious Education

What does the Qur'an reveal to Muslims about Allah and his guidance?

The children will make links that show how Muslims beliefs and practices come from teachings of the Qur'an or from the Sunnah of the Prophet. Learning how Muslims express the idea of revelation as a rope reaching down to earth and will ask questions about how celebrating with others can make us feel we belong.

Discrete learning in Computing

This unit looks at how a flat-file database can be used to organise data in records. Pupils use tools within a database to order and answer questions about data. They will create graphs and charts from their data to help solve problems. They use a real-life database to answer a question, and present their work to others.

Linked learning in MFL:

Space explorations

Children will identify cognates in French to planet names in English. They will apply knowledge of noun and adjective agreement to create metaphors in French.