

Key Vocabulary

Digit
Place Value
Calculate
Addition
Subtraction
Multiplication
Division
Equal
More
Less

Reflection
Shadows
Light source
Opaque
Refraction
Periscope
Nocturnal
Orbits
Convex
Concave

Peak
Valley
Cliff
Ridge
Plateau
Summit
Hill
Terrain
Range
Tectonic plates
Fold mountains

Year 3
Autumn 2



Science key area of learning: Light and dark



Science knowledge and understanding:

recognise that they need light in order to see things and that dark is the absence of light

notice that light is reflected from surfaces

recognise that light from the sun can be dangerous and that there are ways to protect their eyes

recognise that shadows are formed when the light from a light source is blocked by an opaque object

find patterns in the way that the size of shadows change

Working scientifically:

asking relevant questions and using different types of scientific enquiries to answer them

setting up simple practical enquiries, comparative and fair tests

making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers

gathering, recording, classifying and presenting data in a variety of ways to help in answering questions

recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions

using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions

identifying differences, similarities or changes related to simple scientific ideas and processes

using straightforward scientific evidence to answer questions or to support their findings.

Key areas of English learning: A boy called Christmas, Matt Haig

Reading the book and engaging in comprehension activities linked to it

Diary: past tense, first person, chronological order, conjunctions, adverbials of time

Missing chapter: subordinating conjunctions (because, if, when, that)

Writing in the style of an author – engaging the reader

Inverted commas for speech in the missing chapter

Persuasion: rhetorical questions, vocab to persuade, teach features of letter writing (cohesion)

Unit links to English learning:

Posters linked to the science topics

Factfiles

Reading a range of books and extracts linked to the topics being studied

Key areas of Maths learning:

Place Value

Addition

Subtraction

Physical Education skills development and activity:

We will be learning how to play basketball. We will be developing a range of specific skills such as performing a basketball dribble. There will also be an emphasis on team skills such as using strategies, tactics and routes to success.

Geographical knowledge and skills

Europe

How are mountains formed?

Know how a mountain was formed

Know the names of a number of the world's highest mountains

Know where the main mountain regions are in the UK

Know where the equator, Tropic of Cancer, Tropic of Capricorn and the Greenwich Meridian are on a world map

Use maps and globes to locate the equator, the Tropics of Cancer and Capricorn and the Greenwich Meridian



Art knowledge and skills:

Sketchbooks:

Use sketchbooks to help create facial expressions
Use sketchbooks to experiment with different texture
use photographs to help create reflections

Drawing, Sculpture, Painting:

know how to use marks and lines to show texture in art.
know how to use line, tone, shape and colour to represent figures and forms in movement and know how to show reflections

Study of great artists:

experiment with the styles used by other artists.
explain some of the features of art from historical periods.
know how different artists developed their specific techniques



Religious Education:

Theme: Christmas
Religion: Christianity
Key question: Has Christmas lost its true meaning?

Home learning ideas/places to visit (Community)

Read Together: You could read non-fiction texts about mountains or fictional stories about nocturnal animals.

Talk Together: Discuss the knowledge mats for each topic and also use an atlas to locate different countries in the world and be able to locate some of the world's largest mountains.

Make/Do Together: You could make a mountain or make your own puppets to create a shadow puppet show.

PSHE development:

Recognising and respecting diversity.

Being respectful and tolerant.