

**Year 4**  
**Spring Term**  
**What will we learn this term?**

**English**

**Diary Entry** We will write a diary entry about a boat trip down a river and use noun phrases to describe the setting.

**Leaflets** We will write an information leaflet about hill walking and use fronted adverbials.

**Explanations** We will write an explanation of the model water cycle investigation and use fronted adverbials and conjunctions.

**Poetry** We will write a narrative poem about a mountain expedition and use a range of topic-specific and descriptive vocabulary.

**Maths**

**Further Multiplication and Division**

In this chapter, pupils will further develop their understanding of multiplication and division. They will learn how to divide and multiply by 1 and 0 and understand the law of commutativity. They will learn how to multiply three numbers together using prior knowledge of multiplication tables. Pupils will use their tables and knowledge of place value to multiply multiples of 10, leading to the multiplication of 2-digit numbers using short multiplication. They will use their knowledge of multiplying multiples of 10 when multiplying multiples of 100, leading to multiplying 3-digit numbers using short multiplication. Pupils will learn more about division and will divide 2-digit numbers using two methods, including numbers with remainders. They will learn to solve multiplication and division problems using the methods they have learned and will use bar models to visualise what the problem is asking them to do.

**Graphs**

In this chapter, pupils will learn how to interpret picture graphs and bar graphs. They will be introduced to line graphs and how they are used to measure change over time. They will interpret line graphs and use information collated in a table to draw a line graph. Pupils will make predictions based on trends identified in data.

**Fractions**

In this chapter pupils will be introduced to hundredths. They will learn about mixed number fractions and improper fractions. They will learn how to convert between mixed numbers and improper fractions. They will learn how to add and subtract fractions and will solve addition and subtraction word problems.

**Science**

**States of Matter**

This project teaches children about solids, liquids and gases and their characteristic properties. They observe how materials change state as they are heated and cooled, and learn key terminology associated with these processes.

**Grouping and Classifying**

This project teaches children about grouping living things, known as classification. They study the animal and plant kingdoms and use and create classification keys to identify living things.

**Computing**

**Programming A**

Learners will create programs by planning, modifying, and testing commands to create shapes and patterns. They will use Logo, a text-based programming language.

**Data Logging**

In this unit, learners will consider how and why data is collected over time. Learners will consider the senses that humans use to experience the environment and how computers can use special input devices called sensors to monitor the environment. Learners will collect data as well as access data captured over long periods of time. They will look at data points, data sets, and logging intervals. Learners will spend time using a computer to review and analyse data. Towards the end of the unit, learners will pose questions and then use data loggers to automatically collect the data needed to answer those questions.

**Geography**

**Misty Mountain**

This project teaches children about the characteristics and features of rivers and mountain ranges around the world, including a detailed exploration of the ecosystems and processes that shape them and the land around them.

### Art

**Vista**  
This project teaches children about the techniques that artists use when composing landscape images, such as colour and atmosphere.

### Design Technology

**Fabrics**  
This project teaches children about home furnishings and the significant designer William Morris. They learn techniques for decorating fabric, including block printing, hemming and embroidery and use them to design and make a fabric sample.

### PE

**Invasion Games**  
The focus of the learning is to develop passing and creating space as pupils apply their understanding of the transition between attack and defence through a variety of invasion games. Pupils will create simple tactics for creating space and keeping possession.

#### **Gymnastics: Bridges**

The focus of the learning is to apply an understanding of excellent gymnastics by starting to developing a sequence, using pair and individual bridges.

### RE

**Being Modest and Listening to Others** Why should we listen to others? What is worth listening to? How do Muslims show that Prophet Mohammed's words matter? And what do followers of Islam expect to happen when they listen carefully?

**Creating Inclusion, Identity and Belonging** How do we show we belong? What do Jewish people do to show that they belong? How do Sikhs show that they belong?

**Being Merciful and Forgiving** Can all mistakes be forgiven? What does a story from the Bible have to say about forgiveness? What do Jewish people and Christians think about forgiveness? What do Christians believe about forgiveness as a result of Jesus' death on the cross?

**Responding to suffering** Can we recognise when others are in hurt or in pain? How do Muslims respond to the suffering of others? What do Christians learn about the reactions of witnesses to Jesus' crucifixion? How do some Christians today respond to the account?

### PSHE

**Dreams and Goals:** We will learn about what hopes and dreams are, how to achieve goals and how to overcome disappointment.

**Healthy Me:** We will learn about how to make healthy choices for our bodies, lifestyle and in our relationships.

### Music

**Stop:** Our learning is focused around one song: Stop! - a rap/song about bullying. We will learn about the interrelated dimensions of music through games, singing and composing.

**Lean on Me:** Our learning is focused around one song: Lean On Me. The material presents an integrated approach to music where games, the interrelated dimensions of music (pulse, rhythm, pitch etc.), singing and playing instruments are all linked.