

# Year 4 - Spring Term

## Science

**Animals including humans: What happens to the food that we eat?**

Children will learn about the importance of the digestive system. They will learn the names and functions of each part of the system and be able to identify the different types of teeth in humans and their purpose. The children will plan and conduct an investigation to answer the question: which drink causes the most tooth decay? They will extend their knowledge of food chains by constructing and interpreting a variety of food chains, identifying producers, predators and prey.

**Electricity: What is electricity?**

In this unit of work, children will learn to sort common electrical appliances into battery and mains powered. They will construct simple series circuits containing a variety of components and understand the difference between complete and incomplete circuits. They will be able to identify whether or not a bulb will light in a simple series circuit and put forward ideas to fix incomplete circuits. The children will plan and conduct an investigation to discover which materials make good insulators and design, construct and test their own switches.

## History **Ancient Greece: What were the greatest achievements of Ancient Greece?**

This unit looks at the Ancient Greeks and their achievements from around 3000 BCE to the reign of Alexander the Great around 330 BCE. The first focus is on the Minoans and how they began to trade in early Greece. The children will also think about and discuss how we know about the early Greeks, by looking at excavation evidence and what this tells them. Next, the focus is on life in Athens and Sparta, the Persian invasion and the impact this had on life in the city-states. Finally, children look at the leadership of Ancient Greece under the rule of King Philip II and then Alexander the Great. Children conclude their learning with a final response to the main historical enquiry, 'What were the greatest achievements of Ancient Greece?'

## Geography **Locality Unit: How can I use map skills to learn about my locality?**

In this unit, children will learn about their local large settlement (Credon) and how it is represented on maps. Children will use Digimap for Schools to find out where the settlement is located in the UK. They will use a key to find out about human features and land use in the settlement. They will view maps at different scales and use four-figure grid references to locate places. They will learn how to plot a route and draw a simple sketch map. They will use cardinal (N, S, E, W) and ordinal (NE, NW, SE, SW) directions.

## English

**Flotsam**

To write part of the story of Flotsam, including a detailed description of one of the settings

**How to Invent**

To write an invention portfolio with timeline

**RSPB Persuasive Letter**

To write a letter persuading others to consider cycling to school

**Poetry - A River:**

To write about a journey through different landscapes

## PSHE

Keeping safe and managing risk  
Rights & Respect

## RE

What does it mean to be a Hindu in Britain today?  
Why do Christians call the day Jesus died 'Good Friday'?

## PE

Gymnastics, Fitness, Handball & Hockey

## French

In the classroom & school subjects

## Maths

**Multiplication and Division**

The children will start by learning to multiply and divide by 10 and 100 before moving on to learn to multiply 2 and 3 digit numbers by 1 digit numbers using formal methods after spending time building understanding of the maths behind the calculations and being able to represent and explain it in different ways.

**Measure: Length and Perimeter** The children will learn about measuring in metres and kilometres before learning how to calculate the perimeter of rectangles. They will then use this knowledge to learn to calculate missing lengths.

**Fractions**

The children will build their understanding of improper fractions and mixed numbers. Before learning to add and subtract fractions.

**Decimals**

Building on their knowledge of place value and fraction children secure their understanding using a variety of images and manipulatives. They will learn about the relationships between tenths, hundredths and whole numbers and be able to recognise, explain and compare different values.

## Music

Children will explore pentatonic scales and compose a melodic phrase to create an AB (binary) form, first made popular in the Baroque period and subsequently used in the Classical period and later.

## Computing

Programming: Repetition in shapes  
Data & Information: Data logging  
Online safety: Protect your stuff & Respect each other

## Art **Why do artists keep sketchbooks?**

Children learn how artists use sketchbooks in this painting and collage unit. They will learn what mixed media is and use collage and watercolour while being inspired by buildings and the work of other artists. They will learn about the work of an architect, Victorian photocollagists, and a contemporary collagist. They will develop their ability to evaluate their own work. They will become more confident while creating their own more divergent outcomes.

## DT **Design and make a game with an electrical circuit**

Children will apply knowledge gained of electric circuits in science in a purposeful way by designing and making an electric game using a bulb. Children will decide upon the design criteria for their game by considering who will use it, where it will be used and what for. Finally, children will complete a detailed evaluation of their final product.