



# Curriculum Overview



Autumn Term

Year 5

## English



### Traditional Tales from Other Cultures

This unit allows pupils to explore several traditional stories from different cultures, written in a contemporary style. They become more familiar with the different structures of stories and the range of literary devices authors use to involve and engage the reader. Pupils will apply what they learn to further develop their language and writing skills.

### Non Fiction: Finding The Boy King Tutankhamen

This multi genre unit is linked to the study of Ancient Egypt and engages pupils in reading and writing a wide range of on-line and book based texts exploring the discovery of Tutankhamen's tomb. Pupils will develop a point of view and will be able to provide reasons.

## Maths



### Number: Place Value

- Read, write, order and compare numbers to at least 1 00 000 and determine the value of each digit
- Round any number up 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000
- Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000
- Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.

### Number: Addition, Subtraction, Multiplication & Division

- Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
- Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
- Solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why.
- Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
- Multiply and divide numbers mentally drawing upon known facts
- Add and subtract numbers mentally with increasingly large numbers.
- Solve problems involving addition, subtraction, multiplication and division and a combination of these.

## Maths (Continued...)



### Number: Fractions (inc. decimals and percentages)

- Solve problems which require knowing percentages and decimal equivalents of  $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{5}$ ,  $\frac{2}{5}$ ,  $\frac{4}{5}$ .
- Compare and order fractions whose denominators are all multiples of the same number
- Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
- Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements  $> 1$  as a mixed number
- Add and subtract fractions with the same denominator and denominators that are multiples of the same number
- Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.

### Measurement:

- Use all four operations to solve problems involving measure (money) using decimal notation, including scaling
- Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
- Measure and calculate the perimeter of composite rectilinear shapes in centimetres and meters
- Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres ( $\text{cm}^2$ ) and square meters ( $\text{m}^2$ ) and estimate the area of irregular shapes

### Statistics:

- Complete, read and interpret information in tables, including timetables.

### Geometry: properties of shapes:

- Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
- Draw given angles, and then measure them in degrees
- Identify:
  - Angles at a point and one whole turn
  - Angles at a point on a straight line and half a turn
  - Other multiples of  $90^\circ$
- Use the properties of rectangles to deduce related facts and find missing lengths and angles.



## Religious Education

### Creation

This unit outlines some key beliefs about the creation of human beings and the creation of the world. It introduces the children to the story of creation as a way of explaining that God is creator, rather than a re-telling of the order of the created world. It will help teachers to reflect with the children on their God given talents and living their lives in response to the teaching of Christ.

### Miracles and The Sacrament of the sick

In this unit children learn about some of the miracles of Jesus and the work of the Church to heal and care for the sick in Christ's name.

### Advent

This unit links the Old Testament and the New Testament in terms of preparing for the coming of Christ during the Season of Advent.

### Christmas

In this unit the children will hear about the story of Christmas from St. Matthew's Gospel. They will explore the difficulties faced by Mary and Joseph and the tensions that arose in King Herod.

## Art and Design

### Drawing

- Purpose and effect
- Creative processes.



## Computing

### Computer Systems and Networks: Search engines



Pupils will understand what a search engine is, how to use it and to search effectively. They will learn to be aware that not everything online is true. Children will present their knowledge and understanding through an informative poster.

## Music

### Composition Notation

Children will explore different forms of notation, understand note length and be able to read pitch notation.

## Design and Technology

### Cooking/ Nutrition: What could be healthier?

Pupils will understand where food comes from and the term 'healthy'. We will explore and adapt a traditional recipe and complete a food product.

### Electrical Systems: Doodlers

In this unit, children will understand how motors are used in electricity. We will explore an existing product and apply our findings to develop a DIY kit for another to assemble their product.

## Spanish

Children will learn to describe themselves and others and to learn to say what themselves and others have.



## History

### What was life like in Tudor England?

Pupils will be investigating what Henry VIII was really like; learning about Anne Boleyn; understanding why Henry VIII had many wives; exploring what was a royal progress and learning make deductions about inventories.

## Geography

### What is life like in the Alps?

Pupils will be locating the Alps on a map and the key physical and human characteristics; describing the physical and human features of an Alpine region; understanding similarities and differences between our local area and an Alpine area and understanding the human and physical geography of the Alps.



## Physical Education

- Rounders
- Stomp Dance
- Swimming
- Fitness



## P.S.H.E.

Pupils will learn how to explain the differences between direct and indirect types of bullying. They will explore how to encourage others to make other choices and know how to support others who are being bullied. We will consider ways in which we can describe the dreams and goals of a young person in a culture different from mine. We will reflect on how the goals and dreams of those can relate to our own.

## Science

### Properties of everyday materials and reversible change:

This unit will build upon their knowledge of materials from previous years. Pupils will study dissolving and learn how to recover materials from a solution. We will investigate the separating of mixtures and chemical reactions including burning and use a key and a series of simple tests to identify some mystery powders. We will also explore reversible and irreversible changes.

### Forces:

Pupils will learn more about the forces of gravity and friction and investigate the friction of different surfaces. We will investigate air resistance and learn about simple forces.

### Decaying:

This unit will be taught across the whole year with lessons being taught in each term. Pupils will carry out a number of visits in and around school to look for evidence of decay.