Year 3

History

As historians, we will explore one of the greatest civilisations, Ancient Egypt. Children will use and understand a broader range of terms such as AD/BC while placing events studied on a timeline. They will reflect to compare aspects of their own life to the lives of children in Ancient Egypt. They will identify different sources of information and use these to answer questions they may have. They will write instructions on the process of mummification. Furthermore, children will become archaeologists for a week while writing a diary entry.

The Great Pyramids of Giza

We are very excited about our upcoming trip to the Great Pyramids of Giza. Our children will learn first-hand about one of the celebrated wonders of the world. During their visit, they will be able to explore the tombs, the old dock and the Sphinx and get close to the Pyramids. They will also see the Nile boat exhibition. It is a wonderful opportunity for our Year 3s to explore their heritage with their friends and an expert guide.

Maths

As Mathematicians, we will explore a range of fluency, reasoning and problem-solving questions on the following strands:

Fractions Children will learn to represent fractions pictorially. They will explore fractions in connection to division to find fractions of quantities. They will work with equivalent fractions, ordering as well as adding and subtracting fractions.

Money Children will add and subtract amounts of money to give change, using both £ and p in practical contexts

Shape and Measure Children will measure, compare, add and subtract lengths (m/cm/mm). They will also explore the properties of 2D shapes to answer a wide range of questions.

Time Children will tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour digital clocks.

English

Aside from the instructions and diary entry writing taking place in History lessons, children will also be exploring non-fiction texts, play scripts as well as poems.

We will explore different forms of non-fiction texts and children will learn to write a non-chronological report on an animal. Following this, children will learn to read and perform a play script. They will write their scene of Cinderella but with an ancient Egyptian twist. Finally, children will explore different poems and poetic tools to be able to write a shape as well as an acrostic poem.

Art / DT

This half-term, children will get a taste of Art as well as DT.

In Art based lessons, children will explore paint and how to use it effectively to create the desired effect.

In DT, children will use their scientific knowledge of muscles and bones to design and create a moving joint.

PSHE

Our value of this half-term is 'Open Mindedness'. We will remind ourselves to be/remain open-minded by not having made opinions or decisions ahead of time; being willing to consider new ideas.

Science

In Science, children will learn about the different diets of animals and humans. We will explore the concept of 'Keeping Healthy' covering the nutritional aspect as well as the effect of exercise. We will explore the human body, including the skeletal and muscular systems, and identify their purpose and function.

Computing

This half-term, we will focus on developing their Word Processing skills. This will include operations such as editing through the exploration of layout: fonts, aligning text, bullets and numbering. They will also extend their recall of keyboard shortcuts formatting to have the desired lavout effect.

Year 4: Natural Disasters

English

This half term, the English theme is *Natural Disasters*. English and Geography will be closely linked as students' research, read and write about a variety of natural disasters through both subjects. Year 4 will be exposed to a range of non-fiction text types through reading and writing.

Writing: We will be looking at four genres of writing this term:

- News Article
- News Bulletin
- Non-Chronological Report
- Poetry

Reading: Students will continue to follow the **VIPERS** reading strategies to boost essential reading skills in Year 4. We will be focusing on these skills throughout the school year:

Vocabulary – give/explain the meaning of words in context
Inference – make an inference from the text/explain and justify using evidence from the text
Prediction – predict what might happen based on details stated or implied
Explain – identify/explain how information/narrative content is related and contributes to the meaning as a whole
Identify/explain how meaning is enhanced through choice of words and phrases
Make comparisons within the text
Retrieve and record key information/details from fiction and non-fiction
Summarise main ideas from more than one paragraph.

Grammar & Spelling: Grammar will be embedded in English lessons and suitable to the text type being taught. Reading Eggs will be a significant platform for practising the English National Curriculum for Year 4 spelling words as we apply these words within the context of our English lessons.

P.S.H.E. – OPEN-MINDED

In line with the C.E.S. learner charter, students will explore the meaning and importance of open-mindedness through a range of activities including discussions, games, role play and presentations.

Science

Properties and Changing Materials

Year 4 will be working scientifically to classify different materials according to their properties. Students will have the opportunity to identify properties of a range of different materials, explore the differences between mixtures and solutions, and how these can be separated. Investigations and fair testing will also be conducted to determine whether a change/ reaction is reversible or irreversible. Year 4 will also have the opportunity to apply their knowledge of tables, bar charts and graphs from this term's Maths to record and interpret their findings.

Art/D.T. – Building Bridges Project

In Art/D.T. this half term, students will use skills learned across the curriculum to design and build a model of a bridge. Students will plan, design, create and evaluate their bridges against a shared class criterion. Bridges will be tested using simulations of the natural disasters learned in English and Geography. Students will also be able to apply their knowledge of measurement in Maths to build their bridges.

Mathematics

In line with the Mastery approach to Maths, students will continue to practice fluency, reasoning, and problem-solving tasks to reach a greater depth in Maths. Students will also have the opportunity to apply their Mathematical knowledge to conduct Mathematical investigations and solve real-life problems.

Statistics – read, present and interpret data using bar graphs, pictograms and time graphs.

Multiplication and Division – explore different strategies to solve mental division and multiplication problems. Students will begin to identify factor pairs to understand commutativity. Students will also revisit multiplication facts for the 9 times table and use partitioning and chunking to solve written calculations.

Fractions – In Fractions, students will compare and order fractions using a number line. They will also review the decimal equivalents of fractions, finding fractions of a quantity as well as adding and subtracting fractions.

Measurement: Centimetres and Metres – Year 4 will measure and draw using centimetres and meters. Students will have the opportunity to measure real-life objects to enable them to convert between units of measure. As part of measurement, students will complete an investigation to practice applying their knowledge to reason and problem solve.

Geometry – Students will identify the properties of 2-D shapes as well as compare and classify quadrilaterals, triangles and 2-D geometric shapes.

Measurement: Area and Perimeter

Year 4 will measure the area and perimeter in simple 2D shapes and rectilinear shapes. Students' knowledge of centimetres, metres and 2D shapes will be applied to solve multi-step and real-life problem-solving questions.

Times tables – Students' knowledge of all their times' tables will be practised regularly.

Computing – Microsoft Word

The children will be developing their basic word processing skills this term. This will include operations such as editing and saving files, using the clipboard, recognising user interface features, spell check, and printing files.

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ENGLISH

Children will read the graphic novel, 'In the Line of Fire'. In Reading, they will further develop their reading comprehension skills using the VIPERS question stems. In Writing, they will identify the critical language and structural features of diary writing, then plan and write their diary entry from the trenches. Children will explore a range of informal letters sent during the war. They will also analyse the key features of structure and language before writing their own. In Poetry, children will learn about the characteristics of limericks and haikus, then write war and winter poems.

HISTORY

As Historians, children will investigate the history of World War One and discover what led up to the start of one of the largest wars in history. They will explore what life was like for the soldiers on the front line and what life was like for the women and children who kept Britain running. They will also look at how animals were used during the war; how the war ended and the impact from the Treaty of Versailles.

DESIGN AND TECHNOLOGY

As designers, we will research into the different types of transport used during WW1 to take wounded soldiers away from the battlefield very quickly. They will then design, make and evaluate their WW1 stretcher and ambulance.

PSHE

Through our topic of being Open-Minded, children will learn about different global identities and how to manage positive relationships.

MATHEMATICS

As **Mathematicians,** we will explore a range of fluency, reasoning and problem-solving questions on the following strands:

Number and place value
- Read, write order and compare numbers to 1 000 000
- Round numbers to the nearest 10 000, 100 000
- Read and write Roman Numerals in years
- Order and compare negative numbers

Addition and subtraction
- To add and subtract whole numbers and decimals with more than four digits
- To solve multi-step problems and problems with missing digits

Multiplication and Division
- To use short multiplication to multiply 4-digits by 1-digit
- To use long multiplication to multiply 2-digits by 2-digits
- To use short division to divide 4-digits by 1-digit with and without remainders

Measures
- To measure and calculate the area and perimeter of rectangles and rectilinear compound shapes

Fractions
- To find equivalent fractions
- To compare and order fractions
- To add and subtract fractions with unlike denominators

Properties of Shape
- To identify the properties of triangles, quadrilaterals
- To sort polygons according to their properties
- To calculate angles on a missing line

Statistics
- To read and interpret information in tables, line graphs, and timetables
- To calculate and interpret mode, median and mean

SCIENCE

As Scientists, we will explore the topic of Forces. Children identify and name different forces including gravity, friction, air resistance and water resistance. They carry out investigations to explore these forces and work scientifically. They will also learn about how mechanisms such as pulleys, levers and gears work.

COMPUTING

Children will learn about the core features of Microsoft PowerPoint, then create WW1 focused presentations.

Year 6 Curriculum Overview

DT:

We will explore the theme of 'The Victorians' by looking closely at Victorian toys during this era for boys and girls and designing, making and evaluating our very own Victorian toys.

Maths:

In Year 6, we teach a mastery maths curriculum that enables children to develop a deep and secure understanding of mathematics by focusing on a teaching cycle of fluency, problem-solving and reasoning skills to show their knowledge and understanding. The topics that we will cover this term include:

Measure – Area and Perimeter

- To measure and calculate the perimeter of composite rectilinear shapes.
- To calculate and compare the area of rectangles.
- To recognise that shapes with the same area can have different perimeters and vice versa
- To calculate the area of parallelograms, triangles and irregular shapes

Number and Place Value

- To round any whole number and decimal number to a required degree of accuracy.
- To compare and order decimal numbers up to 3 d.p.
- To compare and order negative numbers
- To multiply and divide decimals (up to 3 d.p) by powers of 10

Ratio

- To identify common factors and multiples
- To identify and simplify ratio
- To solve ratio problems involving missing values
- To solve problems involving ratio and proportion involving unequal sharing and grouping

Fractions – adding, subtracting, multiplying and dividing

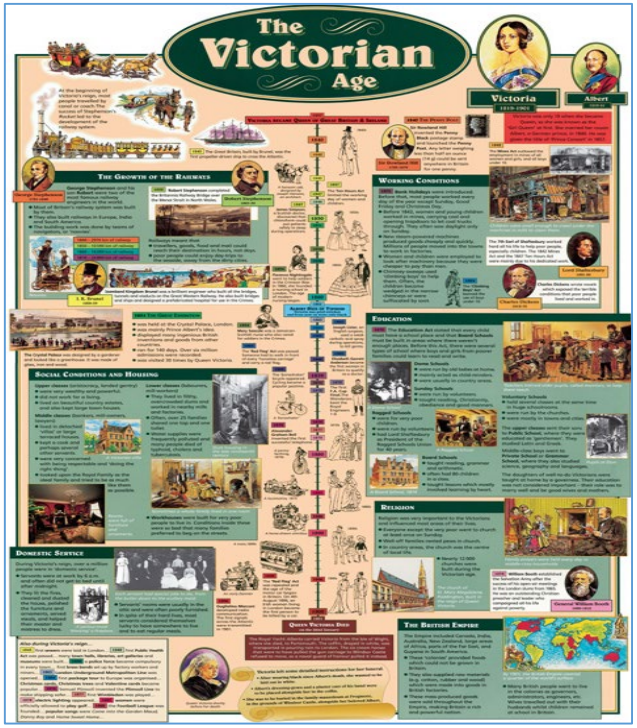
- To convert between fraction representations
- To add and subtract mixed number fractions
- To add and subtract improper fractions
- To use common factors to simplify fractions.
- To identify equivalent fractions
- To multiply and divide fractions (proper, improper, mixed numbers and whole numbers)

Measures – time

- To convert between different units of time
- To read and tell analogue and digital time
- To read and tell time on a Roman Numeral clock
- To calculate word problems using time intervals

Properties of shapes

- To compare and classify geometric shapes based on properties.
- To recognise and measure angles
- To draw 2D shapes using given dimensions and angles
- To illustrate and name parts of a circle
- To calculate missing or unknown angles (in triangles, squares and regular polygons)



Science:

In the secondary biology unit this term, we will be looking at 'Cells' and the following:

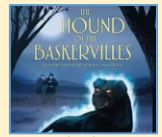
- Levels of Organisation
- Gas Exchange
- The skeleton
- Movement: Joints
- Movement: Muscles

We will continue to focus on our scientific reasoning and vocabulary to produce explanation texts and non-chronological reports while developing the following practical skills:

- Observation - through scientific enquiry and investigation
- Classifying – by noticing similarities and differences
- Inference – to provide an explanation based on a view
- Communicating – to share our findings using graphs and diagrams

English:

We will be closely looking at the text **'The Hound of the Baskervilles'** by Sir Arthur Conan Doyle and use Reading VIPERS to access the text and make inferences and predictions based on evidence from the text and look at how we can justify these. Within our Writing, we will be producing the following:



- Suspense writing
- A detective fiction

We will look closely at the use of our vocabulary. How vocabulary is related and contributes to meaning. Then finally, how this is enhanced through a careful choice of words and phrases.

History:

We will explore the theme of 'The Victorians' this term by looking closely at life in the Victorian era, reforms and key political, social, industrial and economic changes and developments. The children will apply this understanding by writing comparative essays on Victorian and modern-day life and discussing the contrasting ways in the lives that we lived then and the lives we live now.

Children will also develop their historical skills of analysing the validity of sources and discussing the value of primary and secondary sources of information.

PSHE:

Our second value of the year will be Open Minded. In this area, children will gain the knowledge, skills and understanding needed to develop personally and socially, tackling many of the moral, social and cultural issues that are part of growing up and take a step closer to becoming open-minded, global citizens.

They will explore, discuss and in turn challenge a range of local and global identities, relationships and stereotypes as well as looking at what constitutes a positive friendship and contact and how to maintain it.

Computing:

The children will be developing their spreadsheet skills this term. They will develop their understanding of how to generate formulae to collecting and organise data. They will then have opportunity to apply these skills to creating and interpreting budgets based on a real-life purpose.