

Year 5 Newsletter

Autumn 2

Our topic/theme this half term is:

Magic in the Making!

In this topic, we will be continuing to use the world of Harry Potter as our link to Science and English, as well as exploring local history through Cambridge during the Victorian era.

Our key text this half term continues to be Harry Potter and the Philosopher's Stone.

Our English learning this half term:

Reading:

In Guided Reading this half term, we will be focusing on the following objectives:

- Draw inferences, such as inferring characters' feelings, thoughts and motives from their actions, and justifying inferences with evidence.
- Check that a book makes sense to him/her, discussing his/her understanding and exploring the meaning of words in context.
- Identify and discuss themes and conventions in writing.
- Participate in discussions about books that are read to him/her and those that can be read for himself/herself, building on his/her own and others' ideas and challenging views courteously and with clear reasoning.
- Preparing poems to read aloud and to perform, showing understanding through intonation, tone and volume so that the meaning is clear to an audience

Writing:

In Year 5, we will be developing the following writing skills:

- Plan his/her writing by identifying the audience for, and purpose of the writing, using other similar writing as models for his/her own.
- Draft and write by using further organisational and presentational devices to structure text and to guide the reader e.g. headings, bullet points, underlining.
- Draft and write by using devices to build cohesion within a paragraph.
- Evaluate and edit by proposing changes to vocabulary, grammar and punctuation to enhance effects and clarify meaning.
- Proof-read for punctuation errors, including use of brackets, dashes or commas to indicate parenthesis. Use of commas to clarify meaning or avoid ambiguity.

We will be writing diaries, using our Harry Potter topic as a stimulus. We will focus on developing the following specific skills:

- Use an appropriate level of informality.
- Include feelings and emotions.
- Use figurative language, power of 3 and expanded noun phrases.
- Use a range of sentence structures and different openers.

We will be writing persuasive texts, focused on publicising our federation.

- Use rhetorical questions and persuasive language.
- Use varied sentence structure, including short sentences.
- Use well-chosen facts and statistics within our writing.
- Use the power of 3 technique.

In grammar, we will be revisiting prior learning in areas such as tenses and word classes. We will then look more closely at using commas to clarify meaning or avoid ambiguity and using devices to build cohesion within and across paragraphs.

Our Maths learning this half term:

Multiplication and Division

- Find multiples and factors of a number and can identify factors common to 2 different numbers.
- Use vocabulary relating to prime numbers, prime factors and composite numbers.
- Work out if any given number up to 100 is a prime number and can recall prime numbers up to 19.
- Multiply numbers with up to 4 digits by a 1 or 2-digit number using formal written methods.
- Divide numbers with up to 4 digits by a 1-digit number, using formal written methods, and can show remainders.
- Multiply and divide whole and decimal numbers by 10, 100 and 1000.
- Identify and use square numbers and their notation.
- Identify and use cube numbers and their notation.
- Solve problems involving multiplication and division, including using factors and multiples, squares and cubes.
- Solve problems involving addition, subtraction, multiplication and division, and a combination of these, including understanding the meaning of the equals sign.
- Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

Measure – Area and Perimeter

- Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.
- Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²), square metres (m²), and estimate the area of irregular shapes.

We will continue to practise and revise times tables and other arithmetic skills in our mental starters.

Our Science and Computing learning this half term:

Science

Our unit of science this half term will continue to explore the properties of materials and changes in state. We will focus on developing our enquiry and investigative skills, including the following:

- Raise different types of questions and select the most appropriate type of enquiry to answer them
- Recognise when and how to set up comparative and fair tests and explain which variables need to be controlled and why
- Decide what observations to make, what to measure and how long for
- Notice causal relationships in data and identify evidence that refutes or supports their ideas
- Choose most appropriate equipment and use precisely. Take repeat measurements where appropriate
- Decide how to record data and results, recording results of increasing complexity, using keys, tables, and different charts.
- Use relevant scientific language and illustrations to discuss, communicate and justify ideas
- Use results to make predictions and identify when further observations, comparative and fair tests might be needed

Computing

Our unit of computing this half term is focused on using Google Drawings to produce vector drawings:

Children will learn about vector drawings and learn how to use different drawing tools to create layered images. They will explore ways of grouping and duplicating images to create more complex pieces of work.

Our digital literacy focus this half term will be on thinking about digital citizenship and building strong online communities.

Our Humanities learning this half term:

History:

Our history focus is on local history, exploring the Victorians in Trumpington and Cambridge. We will be exploring some of the following themes:

- How did Cambridge celebrate the coronation of Queen Victoria?
- Using primary and secondary evidence to learn about Queen Victoria's visit to Cambridge.
- The historical effect of the introduction of the railway.
- The history of mining in Cambridge.
- Changes in education since the Victorian era.

We will be developing the following historical skills:

- Establish clear narratives within and across the periods they study.
- Note connections, contrasts and trends over time.
- Address and devise historically valid questions about change, similarity and difference.
- Construct informed responses that involve thoughtful selection and organisation.
- Understand how our knowledge of the past is constructed from a range of sources.

RE:

In RE, we will be exploring the question: 'Are the Ten Commandments still relevant today?'

Spanish:

In Spanish this half term, we will be revising some of our previous learning before looking at how to say dates in Spanish and making cultural comparisons to Spanish Christmas.

Our Creative Arts learning this half term:

Art:

The children will study and imitate the work of influential artists from a diverse range of backgrounds. We will continue to learn about different art movements, mapping these on a timeline and thinking about the ways in which they influenced each other. We will also learn about optical illusions and create a Victorian thaumatrope toy.

We will develop the following skills:

- Continue to explore and use various art medium, for example wax resist and collage.
- Consider ways to build-up visually effective compositions.
- Observe shape and form in artwork, understanding the words organic and geometric.
- Experiment with pattern making, such as shape repetition and Ndebele patterns.
- Use complementary colours to produce aesthetically pleasing work.

DT:

Children will learn about bridge-building and develop a range of skills to plan, design, build and evaluate their bridges. Children will select the materials they need, conduct tests to justify their decisions, look at examples of bridges in the world and use diagrams.

We will develop the following skills:

- Use research and design criteria to inform design of bridges.
- Develop ideas to inform the design of innovative, functional and appealing products by looking at, exploring and analysing examples of real-life bridges.
- Generate, develop, model and communicate their ideas through discussion and annotated sketches.
- Select and use a wider range of materials and components, according to their functional properties and aesthetic qualities.
- Evaluate their final design against their own, original design criteria and consider the views of others to improve their work.
- Apply understanding of how to strengthen, stiffen and reinforce the bridges to ensure they are stable and they are fit for purpose.

Music: Singing

- Singing as a choir.
- Learning melody and harmony in both solo and ensemble scenarios.
- Perform Carols and Winter songs to an audience.
- Using percussion and exploring different rhythms.

Our PE and PSHE learning this half term:

PE:

Our PE units this half term are Swimming and Outdoor and Adventurous Activities (OAA)

Swimming

Children will be working on developing their different strokes, as well as water safety and self-rescue.

OAA

Develop teamwork and communication skills and become more confident when using a map under time pressure and in competitive and cooperative activities.

PSHE:

Our unit this half term is 'Family and Friends'

- Identify the special people in their networks and to recognise how their networks have changed and developed.
- Develop ways of beginning new friendships and of maintaining existing ones during times of change.
- Recognise and value differences between people and how that can be a positive aspect of their friendships.
- Develop strategies for managing some of the pressures in relationships.
- Understand the importance of groups within friendships and recognise some of the pressures which can occur in group situations.
- Know how to get support from people they trust and how they can support other people.

We will also discuss anti-bullying and identify strategies to prevent bullying.

Key Vocabulary

Key Vocabulary for this half term:

Maths

Multiple, factor, product, remainder, inverse, square, squared, cube, cubed, area, perimeter, long multiplication, short multiplication, square centimetre, square metre, square millimetre, mm², cm²

English

Commas in a list, commas to avoid ambiguity, relative clauses, relative pronouns, cohesion, adverbials, parenthesis, brackets, dashes.

Science

Hardness, transparency, conductivity, solubility, solution, solute, dissolve, filter, evaporate, sieve, reversible, irreversible, variables, measurement, accuracy, repeat readings, prediction, comparative, fair test, patterns, conclusions, relationships.

History

Victorian, Queen Victorian, change, consequence, trends, significance, continuity,