

## Class 4 Topic Web Spring 2024-2025 Miss Ng, Mrs Khiernyejad and Miss Noonan

### English

Children will continue developing their writing skills across a range of genres and forms of writing, learning about their features and adapting their writing voice and vocabulary to suit. We will be reading and responding to the children's classic *Pig Heart Boy* by Malorie Blackman. Writing will include: diary entries, monologues, newspaper reports, narrative, discussion pieces, persuasive arguments and comparing formal and informal speech and writing. We will also study and write our own monologue poems. Age-related grammatical concepts, sentence structure and spelling will be taught and developed throughout all English sessions as well as a focus on handwriting and presentation.

### Maths

Children will further their understanding of numbers, extending from 2 and 3 decimal places up to ten million, including rounding these numbers to any power of ten and calculating across the four operations. We will develop our approaches and accuracy in completing long and short multiplication and division methods. We will further develop our knowledge of 2D and 3D shapes and their properties, including calculating perimeter and area of 2D shapes. Children will revise and build on their fraction knowledge, including multiplying and dividing fractions by integers, and making links to decimals and percentages.

### Science

**Properties of materials:** We will learn about different materials, their uses and their properties. Key concepts include dissolving, separating mixtures and irreversible changes. Children will sort and classify objects according to their properties and use this to find the most suitable material for different purposes. We will work scientifically and collaboratively to investigate thermal insulators, making predictions and forming conclusions.

**Earth and Space:** Children will learn about Earth and its place in our Solar System. We will look at scientific evidence gathered by astronomers throughout history to help us understand planetary movement, how day and night occur, and how ideas about the Earth's shape and movements have developed over time.

### Geography

#### **How does the distribution of water affect the world?**

Children will learn about the importance of clean water and investigate how it is supplied. They will consider who owns and manages water and contrast water use at home with use in less economically developed countries. They will also learn about the components of the water cycle.

### RE

#### **Hinduism - How do questions about Brahman and Atman influence the way a Hindu lives?**

In RE children build on their knowledge of Hinduism with a focus on Brahman and Atman. We will learn about the Hindu belief that Brahman is in everything and consider how this affects their choices and behaviour. We will use the stories of Svetaketu to support our learning.

#### **Christianity - Should believing in the resurrection change how Christians view life and death?**

Children will study Holy Week, the last week in the life of Jesus including crucifixion. We will think about what resurrection means, the importance of the word 'Hallelujah', and how Jesus's death and resurrection shocked and changed his followers.

### History

**What did the Ancient Greeks achieve?** We will consider what Ancient Greek civilisation was like for rich and poor, girls and boys. We will also learn about Ancient Greek warfare, including armour, weaponry and the battles waged. We will learn how Ancient Greece was governed and the impact of Ancient Greek civilisation on the modern world.

### Computing

**Computing systems and networks:** We will learn how data is transferred over the internet. We will look at how the internet facilitates online communication and collaboration, as well as considering how we keep ourselves and others safe when sharing information and being online.

**Programming – sensing movement:** Children will be using micro:bits and Make Code software to program an accelerometer. They will design, write and debug the

program, working together to detect and correct errors in their algorithms.

### D&T

**Sculpting a vase:** Children will develop their researching and planning skills when designing an Ancient Greek vase, linking to our learning in History. We will consider both the functional and decorative elements of our design. Children will further their skills when working with clay, including the use of tools and attachment techniques, as well as how to 'debug' and fix errors, culminating in a racing-themed game.

### Art

**Earth and Space:** This term, we will focus on our painting and printing skills. Children will explore the work of artist Stephanie Cubbin, drawing inspiration from her pieces. We will explore watercolour and painting techniques, including layering, using salt, and splattering, to achieve a desired effect.

### Music

Music is taught on Tuesdays by Mr Rapson. This term we will continue to develop body coordination, conducting melodies using Solfege, fine motor skills, singing with accurate pitch and reading, writing and improvising rhythms through movement. Using tuned and untuned percussion, we will expand on high sounds, low sounds, loud and quiet sounds by using full Solfege and utilise rhythms that include more complex patterns.

### French

French is taught on Tuesdays by Madame Meola. We will look at how to navigate around a town centre, visiting different buildings and locations and learning to describe what activities we do in each place.

### PE

The children will have P.E. on **Mondays** and **Fridays**. Children must wear PE kit on these days. This term the children will participate in dance, net and wall games, and netball.

### PHSE

PHSE will be taught once a week. This term the themes are 'Dreams and Goals' and 'Healthy Me'. We will discuss how we

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can work towards achieving dreams and goals we may have, and what challenges we and others may face. We will also build on our previous term's Science learning about keeping ourselves physically fit and healthy, as well as considering our mental wellbeing.

### **Home Learning**

While children will be able to complete a majority of home learning tasks with little adult support, we encourage you to

check the quality of presentation and completed work before hand-in. All home learning is set and submitted via Google Classroom.

**Spellings:** Children are encouraged to practise the National Curriculum Spelling Lists for Years 5 and 6 as well as spelling patterns and rules we study in class.

In addition to the set homework please continue to hear your children read, read to them, as well as encouraging them to read independently. Children are encouraged to make use of websites such as J2E Blast, Times Table Rock Stars, and Eedi (maths quizzes) – all log in details are in the front of their school diaries.

### **Some key vocabulary for this term:**

Maths		English			
decimal equivalent fraction mixed number integer percent – out of 100 convert compensation perimeter area squared length width formula order of operations		adverbials homophones modal verbs monologue onomatopoeia suspense tension	transplant issue ethics cardiovascular discussion persuasive ostracise	apostrophes atmosphere contractions dialogue paragraphs structure technique	
		RE		Art	D&T
		beliefs commitment figures testament importance sacrifice significance	Atman beliefs Brahman choice decision quality/qualities symbolism	design detail drawing influence painting sculpture technique	slab coil pinch functional decorative handle
Computing		Geography	History	Science	
algorithm debug develop movement program randomised variable	e-safety features design layout menu navigation system	distribution precipitation sanitation source supply usage water cycle	armour civilisation democracy empire govern impact weaponry	astronomer beliefs evidence geocentric heliocentric revolve theories	classify conductor insulator materials molecules properties purpose