



Unit of Enquiry Subject Knowledge and Skills Overview

Title: Significant British Events- British Railways.

Science: Super Space

Year Groups: 5

Maths: Place value: Children will learn to: read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit; interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero; round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000; solve number problems and practical problems that involve all of the above and read Roman numerals to 1000 (M) and recognise years written in Roman numerals.

Addition and subtraction: Children will learn to: add and subtract whole numbers with more than 4 digits, including using formal written methods; 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 contexts.

History: Significant British Events As part of our topic this half term, we will be developing a chronologically secure knowledge and understanding of British history and the impact of significant turning points within it. We will be learning about the first trains and railways and how the railway network in Britain grew and spread over time, considering the impact of this development on industry at the time. Through our unit of enquiry, we will be developing our historical skills of using timelines to place events and exploring a range of sources to make inferences about the past.

English: This half term our English work will be linked to our science topic space. We will be exploring the 'Curiosity The Story of a Mars Rover' by Markus Motum. . This English sequence explores the themes of exploration and discovery and what it means to be curious. Children will follow the journey of the NASA rover Curiosity as it makes its way to Mars. Children will write labels to explain Curiosity's features before exploring how to use cohesive devices to expand and explain. They will use the passive voice to log the rover's landing on Mars and write a short news report to be broadcast to Times Square. Finally, children will draw together their learning to design a new rover and write an expanded explanation to propose it as the future of NASA exploration.

Science: Space We are very excited to be exploring space this half term in science. Children will be learning to understand the movement of the Earth and other planets relative to the sun in the solar system and the movement of the moon relative to the Earth. They will also use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.

We will be visiting the Think Tank to take part in some investigations of our own, testing matter found in space and taking part in bespoke workshops all about Mars.

Focus Drivers:

- Developing independence.
- Developing critical thinking skills.
- Promoting an awareness of the wider world.

Key Questions:

- Who invented and developed the first steam engines?
- How and why have locomotives changed over time?
- What do historical sources tell us about the past?
- What was the impact of the steam engine on industry?
- can you describe movement of the Earth and other planets relative to the sun in the solar system
- Can you use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky

Vehicle for Learning:

Think Tank Visit

Art: LS Lowry In our Art sequence of learning, we will be exploring the works of the British artist LS Lowry. We will learn about his life and discuss his paintings, looking for common themes, similarities and differences. Our skills of analysis will be used to answer questions about our own opinions and what we can see in each painting. We will be developing our sketching skills to create Lowry figures, as well as using colour mixing and matching to paint landscapes and details in a composite picture in the style of Lowry.

Music: FAME Ukulele We are excited to be learning a new instrument this half term, with the help of a FAME instructor. Children will be introduced to the Ukulele and will develop their skills of strumming, learning some ukulele chords and playing tunes collaboratively.

PSHE: – Get Heartsmart We will be discussing ways in which we can be positive to one another, thinking about things we may need to guard our hearts from and considering things we are grateful for.

PE: Outdoor Adventurous Activity For our PE unit this half term, children will be taking part in outdoor adventurous activity challenges, completing these both individually and within a team. They will be developing their problem solving and leadership skills, navigating around spaces with growing confidence and following directions with increasing accuracy.

French: 'All Around Town' We will learn to develop our intercultural understanding by being introduced to the sights of some typical French cities. We will also learn to describe places in a town, count to 100 and give their address in French.

Computing: Online Safety We will be exploring a number of elements which can help to keep us safe online, including thinking critically about information sharing, protecting privacy, citing sources of information and understanding age-appropriate content and games.

Maths:

Addition and subtraction: Children will learn to: add and subtract whole numbers with more than 4 digits, including using formal written methods; 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 contexts.

Multiplication and Division: Children will learn to: identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers; establish whether a number up to 100 is prime and recall prime numbers up to 19; 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; divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context and multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.

English: This half term our English work will be linked to Remembrance, in order to immerse children in wider topics in and outside of school. Children will be exploring descriptive writing techniques. They will consider how authors have developed characters and settings in what they have read, listened to or seen performed. Whilst assessing and analysing the effectiveness of their own and others' writing. They will also select appropriate grammar and vocabulary, understanding how such choices can change and enhance meaning, proposing changes to vocabulary, grammar and punctuation to enhance descriptive effects.

Science: Light Throughout this topic children will: recognise that light appears to travel in straight lines; use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye; explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes and use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.

Music: FAME Ukulele Children will be introduced to the Ukulele and will develop their skills of strumming, learning some ukulele chords and playing tunes collaboratively.

French: 'All Around Town' We will continue to learn to develop our intercultural understanding by being introduced to the sights of some typical French cities. We will also learn to describe places in a town, count to 100, greet each other in French, ask questions and give their address in French.

PE: Outdoor Adventurous Activity For our PE unit this half term, children will be taking part in outdoor adventurous activity challenges, completing these both individually and within a team. They will be developing their problem solving and leadership skills, navigating around spaces with growing confidence and following directions with increasing accuracy.

Swimming: Children will be continuing swimming lessons this half term and will be developing their techniques in each stroke.