



YEAR 5 – AUTUMN 2

Topic/theme

FIRE DAMP AND DAVY LAMP: Through studying this topic, we travel back in time to explore how it felt to work in a coal mine. We will learn how the coal mining industry changed over the years and discuss if it has a future. We will also explore the history of coal mining, the miners strikes and their effects on the miners, families and communities and finally, the legacy and future of coal mining.

Reading

Reading is an invaluable part of your child's education and is key to learning in all subjects across the curriculum. We aim to develop our we into confident and fluent readers, and to broaden their vocabulary, by exposing them to a rich diet of high-quality texts from a range of different genres. Our class novel this term will be *Clockwork*.

Writing NARRATIVE: We will be writing in the role as a character from a story. This will be based on the video of the Alchemists' Letter.

RECOUNT: We will be writing a recount based on the story of 'Boy' by Roald Dahl.

Maths

MULTIPLICATION AND DIVISION: Multiplying 2-digit and 3-digit numbers by a single digit; Multiplying 4-digit numbers; Multiplying a 2-digit number by a 2-digit number; Multiply a 3-digit number by a 2-digit number; Dividing by 10, 100 and 1,000; Dividing 3-digit and 4-digit numbers; Dividing 4-digit numbers; Dividing with remainder.

GRAPHS: Reading tables; Reading line graphs.

PSHE

CELEBRATING DIFFERENCE: Within this topic, children will be learning about a range of different cultures, what racism is and how it can be hurtful. They will also learn what rumours are and different types of bullying.





Science

EARTH AND SPACE: Within this half term, we will focus our learning around the topic of Space. We will explore the following questions – How can space phenomena be split into groups? How do we know the Earth is roughly spherical? What does the moon look like at different times of the month? How can I show the Sun appears to move across the sky? How far is the Earth from the sun? Is there a pattern between the size of a planet and the time it takes to travel around the Sun?

Design and Technology

MOVING MECHANISMS: This project teaches children about pneumatic systems. We will experiment with pneumatics before designing, making and evaluating a pneumatic machine that performs a useful function.

History

Through the study of Firedamp and Davy Lamp, we will explore the history of coal mining as well as the need for coal. We will then look into a local area mining study that includes disasters. We finally research into miners strikes and how this affected the miners, their families and the communities.

Music

CLASSROOM JAZZ: Throughout this half term, all our learning will be focused on the following - Thee Note Bossa and Five Note Swing. We will listen and appraise the two tunes and other supporting tunes. We will then learn about the interrelated dimensions of music through playing instruments and improvising.

Physical Education

This term, Year 5 will learning about different Outdoor Adventurous Activities (OAA). In this topic, they will learn about identifying keys on a map learning to read a map, and using a map to find objects. They will also be taking part in activities such as obstacle courses against the clock.





MFL

TIME IN THE CITY: In this unit, we will be exploring a city in France. We will learn how to ask politely for an entrance ticket in French and learn how to give directions in French. We will then understand and give simple information about a city. After that, we will look into Christmas shopping and learn how to understand prices and nouns for presents. Finally, we will learn how to design and describe a Christmas jumper.

Religious Education

SIKHISM: The focus for RE this half term is Sikhism and the celebration of Guru Arjan Gurburab. We will learn what Guru Arjan Gurburab is and learn that Gurburabs are special celebration days that commemorate the lives of the Sikh Gurus. We will learn that Guru Arjan achieved many things during his lifetime, including the completion of the Golden Temple in 1604. We will also learn the Sikh principle of dasvandh – giving 10% of earnings to help others.

COMPUTING

CODING: Within computing this half term, we will be learning how to code efficiently by using simplified code to make programming more efficient. We will use variables in code to create a simple playable game. We will plan an algorithm modelling the sequence of traffic lights and select the right images to reflect the simulation we are making. We will recognise the need to start coding at a basic level of abstraction to remove superfluous details from our program that do not contribute to the aim of the task. We will create a program which represents a physical system. We will then create and use functions in our code to make our programming more efficient. After that, we will create and use strings and set/change variable values appropriately.

