

# Curriculum Map Year 5 Autumn Term

## Geography—The Midlands

In this unit children will identify and describe where they live. Using a selection of maps, children will study the region of the West Midlands and identify the counties and some of the major cities/towns within the Midlands region.

Children will use digital maps of the canals near Wolverhampton and maps showing coal seams. Children will compare the location of the coal seams with the location of the canal networks and make the links between the two and why

**Religious Education – Christian Prayer** In this unit children will explore spirituality by looking at their own situation and consider how they might need to change or develop to deal with the demands of life. Children develop morally and socially, recognizing the value of community, as shown in Christian prayer.

**Key Skills** To describe how Christians pray. To understand some similarities and differences between Christian ideas of prayer. To ask questions about prayer and share own ideas. To describe what commands their respect and

**Science – Earth and Space** In this unit of learning children will investigate the movement of the Earth, and other planets, relative to the Sun in the solar system, explore the movement of the Moon relative to the Earth, will use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky. They will investigate the phases of the moon. **Key skills** To describe the movement of the Earth and other planets. To describe the movement of the Moon. To describe the Sun, Earth and Moon as spherical bodies. To use the ideas of Earth's rotation to explain night and day.

**Science – Forces** In this unit of learning children will investigate forces in action, investigate impact of variables upon these forces. The main focus is investigative learning where children will be: asking questions, making predictions based on scientific knowledge; carrying out fair tests, presenting findings in graphs, charts and tables and drawing conclusions.

**Key Skills** To compare and give reasons based on testing forces, including gravity, friction, air and water resistance. To understand that there are forces of attraction and repulsion. To understand the term 'upthrust'.

**PSHCE – Teamwork (1)** In this unit the children will focus on the positive qualities of a team, learning how to disagree respectfully and communicate effectively.

**Key Skills** To look at the key qualities and skills needed for a team to be successful. They will discuss collaborative learning and identify how to compromise to ensure a group task is completed successfully.

**French – On Holiday** This unit covers the vocabulary needed to describe where pupils are going on holiday, where they're staying and how long they're staying. It also includes a variety of attractions they might encounter on holiday.

**Key Skills** To recognise basic holiday words. To understand some sentences about animals at the zoo. To prepare and deliver a short talk about a holiday. To be able to translate French words using a bilingual dictionary.

## Music

South American Music



## English – Narratives, Nonfiction and poetry

During this term, children will explore **older literature** and **narratives** by **significant authors**. Children will have the opportunity to read examples of classic novels and watch extracts of classic TV/film adaptations. Children will also explore **non-fiction** writing and **poetry**.

**Key Skills** To write for different purposes and different audiences. To develop speaking and listening skills. To undertake a range of spelling, grammar and punctuation activities.

**Mathematics** During this term children will increase their understanding of Place Value, Addition and subtraction, Multiplication and division, statistics, fractions, perimeter, area and volume. **Key Skills** To read, write, order and compare numbers to at least 1 000 000, determine the value of each digit. To add and subtract numbers mentally with increasingly large numbers. To identify factors and multiples of numbers, including all factor pairs of a number, and common factors of two numbers. recognise and use thousandths

**PSHCE – Community (2)** In this unit will talk about the range of faiths and ethnicities in our nation and identify ways of showing respect to all people.

**Key Skills** To be able to explain what a community is and what it means to belong to one. To be able to discuss why and how laws are made, and identify what might happen if laws are broken.

**Design and Technology – Design Mars Rover** In this unit, children will learn about structures of solar powered devices, techniques for reinforcing and strengthening structures, plan, design and construction a framework-type vehicle for an identified purpose that lights up or uses a motor.

**Key Skills** To relate the way things work to their purpose. To explore a range of different structures and materials and how they provide support. To design a functional Mars Rover. To test and evaluate design specification.

**Computing – Search Engines** In this unit children will select and use a variety of search engines including Google, Kiddle, Ask and Duck Duck Co. Children will understand the importance of using technology safely and responsibly.

**Key Skills** To use a search engine to navigate the web. To recognise that not everything online is true. To understand the importance of keywords and use search skills to answer focused questions. To explain what web crawlers are.

**Computing – Data Handling – Mars Rover (1)** In this unit children will re-search and calculate the distance from Earth to Mars, using familiar objects to visualise the journey. Children will learn that due to the vast distance from Mars to Earth, information collected by Mars Rover has to travel as data and is translated into binary code. Children learn that computers use binary to carry out calculations and perform their own addition and subtractions.

**Art and Design – Digital Portfolio** In this unit children will use a range of digital software to recreate and create a range of paintings based upon the work of other artists. They will develop their understanding of what a portfolio is and create their own portfolio that demonstrates their uses of software and a camera to create images.

**Key Skills** To investigate the work of artists. To understand the impact of colour. To create contrasting colours. To compare work of artists. To understand what is meant by light, shade and tone. To use a camera to take digital stills. To edit a photograph. To create a montage of photos.

## Black History

In this unit children will learn all about Lenny Henry.

## History – The Black Country

In this unit children will recognise and describe what the Black Country is like today and develop an awareness of how the Black Country has changed and developed over time. They will use historical sources to investigate the impact of the Industrial Revolution locally. Children will be able to explain why The Duke of Bridgewater was important to the history of canals and their local area.