

### English - The Literary Curriculum and National Curriculum

The children will be reading a wide and varied range of texts. They will write recounts, diary entries, instructions and study classic poems. We will continue to work on our reading and comprehension skills, predicting and summarising. Children will use dictionaries to check the meaning and spelling of words. Children will be tested on spellings weekly. During guided reading we will draw on inferences, exploring characters' thoughts and feelings and asking questions for understanding. They will continue to proof read for punctuation and spelling errors.

### Maths - White Rose/Hamilton and National Curriculum

In maths, we will continue to practise daily mental maths/arithmetic. The children will learn how to use compact methods of calculation for speed and accuracy. Each week children will apply their numerical skills to a rich task; a 'real life' problem which requires higher order thinking. We will continue to study subtraction, addition, multiplication and division as well as time, coordinates, measure and shape. The children will work with co-ordinates in two/four quadrants.

### Science - Earth and Space

This unit is the only Astronomy related science unit in the primary science curriculum. The aim is to give children a basic overview of Earth and its place in our Solar System.

### Science - Forces

This 'Forces' unit will teach the children about types of forces such as gravity, friction, water resistance and air resistance. During some of the practical science work, The children will discuss how variables other than the one being tested can be kept the same to help make a test fair.

### English - The Literary Curriculum and National Curriculum

We will continue to work on reading and comprehension skills. We will be studying the famous play Romeo and Juliet by William Shakespeare. We will be looking at meaning of language, exploring characters and interpreting scenes into modern language. We will write diary entries and hold debates, all related to the play. We will also look at some poetry by Shakespeare. The children will continue to practice their handwriting and will be heard for guided reading as a group. They will continue to proof read for punctuation and spelling errors.

### Maths - White Rose/Hamilton and National Curriculum

In maths, we will continue to practise daily mental maths/arithmetic. The children will learn how to use compact methods of calculation for speed and accuracy. Each week children will apply their numerical skills to rich tasks; scenarios and conundrums which requires higher order thinking. We will continue to study number sense, addition, subtraction, multiplication, division and geometry. The children will work with co-ordinates in two/four quadrants.

### Science - Properties and Changes of Materials

This 'Properties and Changes of Materials' unit will teach the children about different materials, their uses and their properties, as well as dissolving, separating mixtures and irreversible changes. The children will sort and classify objects according to their properties. They will work scientifically and collaboratively to investigate the best thermal insulator to make a lunch box, making predictions and forming conclusions.

### Science - Living Things and their Habitats

This 'Living Things and Their Habitats' unit will teach the children about the process of reproduction and the life cycles of plants, mammals, amphibians, insects and birds. The children will explore reproduction in different plants, including different methods of pollination and asexual reproduction.

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The children will be reading a wide and varied range of texts We will be writing non-chronological reports and using persuasive language to write letters. We will be looking at meaning of language, exploring characters and settings. We will also look at a range of poetry. The children will continue to distinguish between homophones and to use knowledge of morphology and etymology. During guided reading we will continue to make predictions and summarise texts. Children will also continue to practice handwriting. They will continue to proof read for punctuation and spelling errors.

### Maths - White Rose/Hamilton and National Curriculum

In maths, we will continue to practise daily mental maths/arithmetic. The children will learn how to use compact methods of calculation for speed and accuracy - developing to being confident with long division and long multiplication. Each week children will apply their numerical skills to rich tasks; scenarios and conundrums which requires higher order thinking. We will continue to study number sense, addition, subtraction, multiplication, division and geometry. The children will work with co-ordinates in two/four quadrants.

### Science - Animals Including Humans

This 'Living Things and Their Habitats' unit will teach the children will learn about the process of reproduction and the life cycles of plants, mammals, amphibians, insects and birds. They will explore reproduction in different plants, including different methods of pollination and asexual reproduction. They will recap their work in Year 3 by playing a game to name the parts of a flower. They will explore metamorphosis in insects and amphibians, comparing their life cycles.

### Science - Scientists and Inventors

In this unit the children will learn about the life and work of David Attenborough, and create a documentary about a living thing of their choice. The children will learn about how CSI technicians use scientific techniques to analyse evidence and prove or disprove theories.

### Geography - The Amazing Americas

In this unit, children will first find out about the continents of North and South America, and the countries that form them. They will also look in more detail at some of the contrasting regions of the Americas, finding out about the landscape, climate and locations of each area. They will look at similarities and differences between a region of the Americas and where they live. Children will also develop their map and atlas skills and practise reading and writing coordinates.

### History - Ancient Greece

In this unit, the children will learn about who the Ancient Greek people were, when they lived and where and how they were able to establish their empire. They will learn how the political system worked in Ancient Greece, investigate the legacy of Athenian Democracy and compare it with the political systems we have today. They will use historical evidence to find out about the Trojan War and use the information to write and re-enact scenes from it.

### Art - Objects and Meanings

In this unit children select, arrange and present objects in a still-life painting. They investigate the work of artists who have used the theme of still life in a variety of ways to convey ideas and feelings. They develop skills of observation and recording, and knowledge and understanding of colour, tone and composition

### DT - Design and make Musical Instruments

Children learn about the construction of a range of musical instruments, including those from different times and cultures, and how different sounds can be created and altered to make different notes. They learn to use this knowledge and understanding to design and make a working musical instrument using a combination of materials. The appearance of the finished product is an additional aspect and the use of techniques to illustrate visual elements could provide a strong link with art. When completed, the instruments could be used by the children *eg to perform a musical composition*.

### Geography - Magnificent Mountains

In this Unit, children find out about the major mountains of the world and the UK. They find out the different ways in which mountains have been formed, and how different features of mountain ranges have been shaped over time. Children will have the opportunity to consider what the weather is like in a mountainous environment and to evaluate the impact that tourism has on a mountainous region.

### History - Tudors

In History this term we will be learning about the Tudors. We will look at various sources and artefacts to discover more about this period in history. We will compare life then to now and will learn about how the Tudors have influenced us today. Local link to Lesness Abbey - the role St Thomas More and St John Fisher played in the Tudor period.

### Art - Containers

In this unit children explore the craft tradition of making vessels and containers. They develop their own designs and build a three-dimensional form to represent a vessel or container that will hold something special that they would wish for. They consider examples by contemporary designers and ceramicists and look at work from different cultures

### DT - Design and make Moving Toys

Children learn about controlling movement with a cam mechanism as part of a simple toy. The purpose of the toy is negotiated with the children. They develop their designing skills by using information sources to generate ideas and formulate an understanding of how cam mechanisms can be used to produce movement. They extend their making skills by developing techniques in cutting, shaping and joining to combine components and by selecting tools and equipment to measure and cut accurately. Through these activities they gain an understanding of the working characteristics of the materials and components and how they can be combined to create more useful properties. They consider both functional and decorative attributes in a finished product

### Geography - Marvellous Maps

Marvellous Maps allows children to further explore the range of maps available to geographers and to develop their understanding of the key features of maps. They will study a range of maps and atlases, including digital maps, and compare their features. They will learn to use the eight compass points to give directions and give grid references to locate places on a map. By comparing maps of the same place, children will learn about the way that places have changed over time.

### History -Leisure and Entertainment

This Leisure and Entertainment in the 20th Century unit will teach, in depth, about the rise in popularity of cinema. They will learn about how and why football became the nation's favourite sport, the social and cultural importance of the 'Swinging Sixties', why British holiday camps emerged and how television has impacted modern life. Children will also learn about how developments in 20th century technology can make life in this century easier.

### Art - Talking Textiles

The children will explore how stories have been represented in textiles in different times and cultures. They work together to make a two- or three-dimensional work based on a familiar story, myth or legend. They investigate and use a range of materials, techniques and textile processes to create surface patterns and textures and other visual and sound effects

### DT - Design and make Biscuits/Bread

This unit develops children's skills, knowledge and understanding of food, building on the previous units in which children prepared food products using simple processes. The children learn how to adapt a basic recipe to develop a product with specified criteria. Investigation of existing products from all cultures will inform design ideas.

### RE -Come and See

Domestic church family

Baptism/ confirmation belonging

Advent/ Christmas loving

During the autumn term, children will be studying the importance of family in our lives. They will make links between their beliefs about love, their behaviour and how it affects others. The Kingdom of God has on our faith. Children will understand what is needed to accept God's invitation to The Kingdom of God as well as considering the effects Jesus' miracles had on the Kingdom of God. As we approach Advent in Autumn Two, we will be studying justice and the role we can play in a fair society. The children will be encouraged to link faith to their own experiences and start thinking about questions which are difficult to answer.

### PE - Team Games/Swimming

During the autumn term, Year 5 will be taking part in games based learning; this enables the children to understand the concepts of rules and teamwork within invasion games before Learning any skill-based activities. We will then be moving on our learning to play competitive games such as netball. This term Year 5 will be going swimming where the children will be taught to use a range of strokes effectively and swim competently, confidently and proficiently over a distance of at least 25 metres.

### French - Languages - Twinkl Planit

#### Getting to Know You

Children will learn to express their emotions and to talk about the future using two different tenses.

#### All About Ourselves

Children will learn to describe their own appearance and they will be taught grammatical features of French such as the position of adjectives.

### RE -Come and See

Local church community

Eucharist relating

Lent/Easter giving

As we approach Easter, we will be looking at the importance of the story of the Passover as well as the significance of the last supper and Jesus' death. We will be linking each of these to the role mass plays in our faith and the importance of practising our faith regularly

### PE - Team Games/Gymnastics

In the spring term, Year 5 will be continuing invasion games for their outdoor lessons. They will develop their netball skills by strategically planning and creating tactics with their team mates. They will carefully evaluate both their individual and team performance and take steps to strategically improve. Their indoor lessons will be based on aesthetic performances in gymnastics and dance. They will develop flexibility, strength, technique, control and balance.

### French - Languages - Twinkl Planit

#### That's Tasty

Children will learn specific vocabulary of how to say what food and they drink they like and what they like to eat for breakfast a range of foods.

#### Family and Friends

Children will learn how French adjectives must agree with the noun they describe in relation to both number and gender.

### RE -Come and See

Pentecost serving

Reconciliation Inter-relating

Universal Church world

During the Summer term, we will be learning about the Apostles and the important job they were given to do. Our following topic is 'Called to Serve' where we look at the Church and the part we play in this. We will explore the scripture related to this significant time. We will relate our learning to scripture and our own experiences. We will move on to the studying of other faiths.

### PE - Dance/Athletics

In the summer term, Year 5 will be focusing on the various disciplines in Athletics. In Athletics, they will look at each discipline and work towards improving their own performance by analysing their own weaknesses. They will learn the different techniques used to improve in all areas of athletics in order to compete in Sports Day. Our indoor learning will be Liturgical Dance. Children will perform dances using a range of movement patterns; these will all be linked to our faith in Jesus Christ.

### French - Languages - Twinkl Planit

#### School Life

Children will be taught key vocabulary related to objects, subjects and prepositional language. They will also learn how to ask and answer questions in French.

#### Time Travelling

Children will be introduced to one of the common past tenses in the French language. They will be taught how to give dates of birth/death.

### **Music – focus Singing**

We will develop listening and analytical skills through listening to and discussing a variety of music. The focus will be on developing their individual and group performance skills by learning to play chords, introducing the difference between major and minor chords, in different ways and by adding a melody and then through this, to consolidate their understanding of the key elements of music, namely: rhythm, pulse, pitch, dynamics, tempo, duration and structure.

### **Computing – Online Safety**

In this unit, Year 5 will learn about email safety with a focus on preventing and dealing with spam. They will consider the importance of strong passwords and learn how to create them. Children will build on their knowledge of plagiarism and fair use of people's work by learning how to write citations and references for websites they may use. They will scrutinise photographs that they see online and learn how easy it is to manipulate pictures and present them as reality.

### **Computing – Internet Research and Webpage Design**

This unit combines the further development of children's skills for searching the Internet with the introduction of creating and editing a webpage using Google Sites. Children will learn how use to some of the other advanced search features in Google, such as fill in the blanks; and how to create a webpage with a layout of their choosing which includes images and links to other webpages. Children are encouraged to consider related e-safety issues such as use of logins and passwords, and the use of their own images and photos and those of others.

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### **Computing – Flowol**

This unit introduces children to flowcharts and how they are used to program and control devices. Lessons are designed to be used with Flowol software, which includes simulations of real life automatic computer systems. Children are taught to build sequences of instructions, control multiple outputs and structure algorithms with decisions and inputs.

### **Computing – Radio Station**

In this unit, children will use software and digital devices for recording sound. Based around the theme of a Radio Station, it is designed to encourage a creative approach that includes interviewing, making adverts and using jingles. Other software is incorporated where children write scripts and design additional advertising for their Radio Station. Opportunities are included for children to present, listen, review and evaluate their own content as well as professional and commercial examples, plus those created by their peers.

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### **Computing – 3D Modelling Sketch UP**

In this unit the children extend their drawing skills to create 3D models based on using the software SketchUp. Children will learn how to create simple and complex 3D models. They will be able to add detail and manipulate 3D models using a variety of tools

### **Computing – Scratch: Developing Games**

This unit builds on the previous unit in Year 4 (Questions and Quizzes) using Scratch to build and edit algorithms for simple games. The unit is designed to help children develop their skills in writing their own algorithms as well as editing and debugging existing codes.