

Maths

Number and place value

This term pupils will learn to read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit. They will learn to interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers. Pupils will round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000. As well as read Roman numerals to 1,000 (M) and recognise years written in Roman numerals.

Addition and subtraction

This term pupils will learn to add and subtract whole numbers with more than 4 digits, including using formal written method. They will use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. As well as solving addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

Multiplication and division

This term pupils will 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. They will 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. Pupils will recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³).

Topic (Geography) - Journeys

This term pupils will identify and locate countries and major cities in Europe and North and South America on a map. They will look at the human and physical characteristics of a country. The pupils will research and compare the UK, a European country and North and south America. As well as researching famous explorers who went on journeys across the world.

Real P.E

This term pupils will practice running, throwing, and catching skills. As well as improving their balance, agility, and flexibility skills. The pupils will develop their social skills by working together in team games.

Swimming

The pupils will swim competently, confidently and proficiently over a distance of at least 25 metres. They will use a range of strokes effectively [for example, front crawl, backstroke and breaststroke] as well as perform safe self-rescue in different water-based situations.

Year 5 Autumn Term 2022 Topic Web

English

Class books: Brightstorm

This term the types of writing that the pupils will focus on are narrative, poetry, diary entry and short stories.

Grammar

This term pupils will focus on using expanded noun phrases, adverbs and modal verbs to create descriptive settings and atmosphere. Pupils will use direct speech to integrate dialogue. They will learn to use a wide range of punctuation such as brackets, commas, dashes, hyphens and colons in their writing.



JOURNEYS

Big Question: Where am I?

Where are we going?
What has God given us?

Science

Earth and space

This term pupils will explore the movement of the Earth and other planets. They will use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.

Forces

The pupils will learn that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. They will identify the effects of air resistance, water resistance and friction, that act between moving surfaces. As well as recognising that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect.

Computing

This term pupils will follow a computing scheme where they will create an audio podcast and design a safety presentation.

Art/DT

This term pupils will use a variety of materials to design and make pieces of artwork. They will learn how to prepare and cook dishes.

RE

Unit A: Creation

This term pupils will explore the story of creation and reflect on their God given talents and living their lives in response to the teaching of Christ.

Unit B: Miracles & The Sacrament of the sick

The pupils will learn about some of the miracles of Jesus and the work of the church to heal and care for the sick in Christ's name.

Unit C: Advent

The pupils will link the Old Testament and the New Testament in terms of preparing for the coming of Christ during the season of Advent.

Music

This term pupils will play and perform musical instruments with accuracy, fluency, control and expression. They will listen and recall sounds with increasing aural memory. As well as developing an understanding of the history of music.

PSHE

This term pupils will follow the scheme Alive to the World that focuses on family, friendships and themselves.

Language

This term pupils will learn Italian words and phrases.

Year 5 Autumn Term 2022 Knowledge Organiser

TOPIC	SCIENCE																										
<p>Key Vocabulary: <i>Can you find out the meaning of these words and use them in a sentence correctly?</i></p> <p>Journey Explorer Europe United Kingdom North and South America Human Geography Physical Geography Countries Major cities Maps Atlas Environmental regions Longitude Latitude Equator Biomes Climate zones</p>	<p>Key Vocabulary: <i>Can you find out the meaning of these words and use them in a sentence correctly?</i></p> <table style="width: 100%; border: none;"> <tr> <td style="padding: 2px;">Space</td> <td style="padding: 2px;">Earth</td> </tr> <tr> <td style="padding: 2px;">Planets</td> <td style="padding: 2px;">Sun</td> </tr> <tr> <td style="padding: 2px;">Solar system</td> <td style="padding: 2px;">Moon</td> </tr> <tr> <td style="padding: 2px;">Orbit</td> <td style="padding: 2px;">Spherical</td> </tr> <tr> <td style="padding: 2px;">Rotation</td> <td style="padding: 2px;">Mercury</td> </tr> <tr> <td style="padding: 2px;">Venus</td> <td style="padding: 2px;">Mars</td> </tr> <tr> <td style="padding: 2px;">Saturn</td> <td style="padding: 2px;">Uranus</td> </tr> <tr> <td style="padding: 2px;">Neptune</td> <td style="padding: 2px;">Pluto</td> </tr> <tr> <td style="padding: 2px;">Forces</td> <td style="padding: 2px;">Gravity</td> </tr> <tr> <td style="padding: 2px;">Air resistance</td> <td style="padding: 2px;">Water resistance</td> </tr> <tr> <td style="padding: 2px;">Friction</td> <td style="padding: 2px;">Surfaces</td> </tr> <tr> <td style="padding: 2px;">Levers</td> <td style="padding: 2px;">Pulleys</td> </tr> <tr> <td style="padding: 2px;">Gears</td> <td></td> </tr> </table>	Space	Earth	Planets	Sun	Solar system	Moon	Orbit	Spherical	Rotation	Mercury	Venus	Mars	Saturn	Uranus	Neptune	Pluto	Forces	Gravity	Air resistance	Water resistance	Friction	Surfaces	Levers	Pulleys	Gears	
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<p>Star Questions- these are key questions to think about and discuss at home</p>																											
<p>*Name countries in Europe. **Describe the position and significance of the Equator. ***How can you locate a country or major city? **** What are the human and physical characteristics of the UK? *****Explain the similarities and differences of the UK, a European country and North and South America.</p>	<p>*Name the order of the Planets in our Solar system. **Describe the movement of the moon relative to the Earth. ***What are the phases of the moon? ****How do we get day and night? *****Explain how the sun moves across the sky.</p> <p>*Name a type of force. **What do levers, pulleys and gears do? ***How do unsupported objects fall towards the Earth? ****Describe the forces acting on a hot air balloon. *****Explain the effects of air resistance, water resistance and friction, that act between moving surfaces.</p>																										

These questions are of increasing difficulty, encouraging pupils to be 'ambitious for the higher gifts'. The 'four' and 'five star' questions are designed to be opened ended and rely on higher order thinking (see Bloom's Taxonomy). Perhaps these questions could form the basis of discussions at home, as well revisiting key knowledge in the first 'three-star' questions.