

Curriculum Overview: Year 5

	Autumn Term		Spring Term		Summer Term	
	Autumn 1:	Autumn 2:	Spring 1:	Spring 2:	Summer 1:	Summer 2:
Topic	Blast Off! Space topic exploring our solar system! Children will learn about the science behind our Solar System and the Sun, Earth and Moon. They will be able to use art and DT to demonstrate this knowledge, before creating handbooks to help inform future astronauts!	Literacy/PSHE focus: There's a Boy in the Girls' Bathroom by Louis Sachar. Children are to explore friendships and other issues that occur in friendships through this exciting text.	Remembering Heroes WWI. Children will learn all about the exciting history of the First World War and how everyday people's lives were affected.	Doctor, Doctor History of Medicine. Starting in Ancient Greece, and moving forwards to Medieval, Victorian and modern times. Children will learn about changing attitudes towards disease and health.	Popular Culture Poetry, Art & Artists. Children will have the opportunity to learn about artists such as Picasso, Frieda Kahlo and Vincent Van Gough and create their own art in different styles. They will also produce different styles of poetry inspired by the story <i>Cloud Busting</i> .	Desert Survival Geographical skills, exploring climate and deserts. Children will learn to locate different deserts on the Earth and describe them using correct terminology. They will then think about life in deserts and how humans and animals have had to adapt in order to survive there.
Independent Learning Project	Create your own rocket! What materials will you use? How could it be decorated? Could you incorporate a design feature to allow it to move?	Design and describe a perfect friend. What makes somebody a good friend? What personal qualities should they have? Make sure to fully explain your thoughts and reasons.	Create a model or piece of artwork to represent the trenches with as much detail as possible.	Write a diary entry or a short story in role as a child during the Medieval period. How would your life be different? What would you have to be careful of during these times?	Create a portrait in the style of one of the artists studied or write a poem using your knowledge from this term about somebody special you care about.	Design a suitcase full of the key items you would want to take with you to help survive the desert. Make sure you justify your choices!
Visits/ Trips/ Workshops	- Planetarium, Royal Observatory Greenwich		- Imperial War Museum - Old Operating Theatre		- France Trip - National Portrait Gallery - Kew Gardens	
Writing	<u>Fiction:</u> Children will be writing a sci-fi narrative story set on an alien planet, including meeting an alien character! They will use a wide range of descriptive writing techniques involving powerful language,	<u>Fiction:</u> <ul style="list-style-type: none"> Diary entry in role based on exploring a character's thoughts and feelings in a text. Writing letters in role as key characters and exploring their 	<u>Fiction:</u> Children will write letters home in role as soldiers fighting in the trenches, based on their knowledge of the experiences of WWI soldiers and from their reading of <i>Archie's War</i> .	<u>Non-Fiction:</u> <ul style="list-style-type: none"> <i>Plague Doctors' Handbook</i> (Non-Chronological report). Children will learn and write about the medieval beliefs about causes, symptoms and cures of the 	<u>Fiction:</u> Focussing on the story <i>Cloud Busting</i> by Malorie Blackman, children will write a flashback based on a key event of the story. <u>Poetry:</u> Children will explore the different poems contained within	<u>Fiction:</u> <ul style="list-style-type: none"> Children will look at the story <i>Wolves in the Walls</i> by Neil Gaiman. They will then rewrite their own version of the story. Scriptwriting – Children will create

	<p>alongside embedded clauses and adverbial openers.</p> <p><u>Non-Fiction:</u> <i>Future Astronaut's Guide to the Solar System</i>. Children will combine their scientific knowledge of the solar system with non-chronological report writing features to create a guide to help other young people who are interested in Space.</p>	<p>feelings and emotions.</p> <ul style="list-style-type: none"> • Writing "school reports" based on knowledge of different characters and evidence from a text. 	<p><u>Non-Fiction:</u> Children will create a short explanation text demonstrating their knowledge of life in the trenches, and explaining how trench warfare worked.</p> <p><u>Poetry:</u> Exploring a range of war poetry and the imagery and rhyme schemes used within. Decoding the language used in <i>Suicide in the Trenches</i>, and the rhyme scheme and key imagery in <i>In Flanders' Fields</i>. Creating a dramatic performance of <i>In Flanders Fields</i> based on the rhyme scheme and imagery.</p>	<p>Black Death. They will then write in role as a plague doctor to demonstrate their knowledge.</p> <ul style="list-style-type: none"> • Persuasive speech writing in role as Doctor John Snow, to persuade people to believe him about the causes of cholera in Victorian London. 	<p><i>Cloud Busting</i>, particularly looking at Haikus, Limericks, Shape Poems and Free Verse. They will then compose their own haikus about the different characters, before composing a free verse poem about one of the story's key events. They will then publish their free verse composition in the form of a shape poem.</p>	<p>their own script based on the <i>Arabian Nights</i> stories, ready to create and perform their own <i>Arabian Nights</i> puppet show.</p> <p><u>Non-Fiction:</u> <i>Desert Travel Survival Guide</i> (Non-chronological report). Imagining that they are travelling to one of the world's deadly deserts, children will create their own survival guide full of top tips of what you would need to know in order to survive.</p>
Suggested Texts	<ul style="list-style-type: none"> - Cosmic by Frank Cottrell Boyce - Unbelievable! by Paul Jennings - Professor Astro Cat's Frontiers of Space Book by Dominic Walliman - Space non-fiction texts 	<ul style="list-style-type: none"> - There's a Boy in the Girls' Bathroom by Louis Sachar - The Boy Who Lost his Face by Louis Sachar - Thief! By Malorie Blackman - Bad Girls by Jacqueline Wilson - The Boy in the Dress by David Walliams 	<ul style="list-style-type: none"> - Archie's War by Marcia Williams - War Horse by Michael Morpurgo - Poems from the First World War - Opal Plumstead by Jacqueline Wilson - You Wouldn't Want to be in the Trenches in World War One! by Alex Woolf 	<ul style="list-style-type: none"> - Children of Winter by Berlie Doherty - Horrible Science: From measly medicine to savage surgery by Nick Arnold - Medical Milestones and Crazy Cures: Book 2 (Operation Ouch) by Dr Chris van Tulleken - Street Child by Berlie Doherty 	<ul style="list-style-type: none"> - Andy Warhol (Artists in their World) by Linda Bolton - The man who walked between the towers by Mordicai Gertsein - Cloudbusting - Malorie Blackman - V&A Introduces: You Say You Want a Revolution? Madame Sonia Delaunay by Gerard Lo Monaco 	<ul style="list-style-type: none"> - Wolves in the Walls by Neil Gaiman - Holes – Louis Sachar - True Stories of Desert adventures – Gill Harvey - Creatures of the Desert World – Barbara Gibson - Survival at 120 Above – Debbie Miller - Can You Survive the Desert? – Matt Doeden

<p>Maths</p>	<p>Place Value. Reading, writing, ordering and comparing numbers up to 100,000.</p> <p>Decimals. Recognise, compare and order decimal numbers up to 3 decimal places. Add and subtract numbers up to 3 decimal places.</p> <p>Addition and Subtraction. Consolidate the formal methods of addition and subtraction up to 4 digits and including decimals. Solving addition and subtraction word problems.</p> <p>Angles and 2D shape. Consolidate acute, right and obtuse angles and introduce reflex angles. Use a protractor to accurately measure angles. Consolidate knowledge of properties of 2D shapes.</p> <p>Multiplication. Consolidate key mathematical language linked to multiplication and understanding of factors. Use the short method of multiplication to multiply up to 3 digits by 1 digit. Solve multiplication word problems.</p> <p>Division. Solve missing number</p>	<p>Fractions. Compare fractions using < and > symbols. Recognise mixed number and improper fractions. Identify and write equivalent fractions. Add and subtract fractions with the same denominator. Begin to read and write decimal numbers as fractions.</p> <p>Percentages. Introduce children to the idea of percentages and their meaning. Write percentages as a fraction with 100 as the denominator. Know common fraction, decimal and percentage equivalents. Solve simple percentage of amount problems, such as 10%, 50 %, 25% and 20%.</p> <p>Time. Consolidate knowledge of telling the time on an analogue clock. Convert between 12 hour and 24 hour time. Read and solve timetable problems. Solve word problems involving time.</p> <p>Mass and Capacity. Recognise the different units of measurement used for different purposes. Convert between</p>	<p>Place Value Reading, writing, ordering and comparing numbers up to 500,000. Recognise the place value of digits in a 6 digit number.</p> <p>Negative numbers and roman numerals. Interpret and answer questions linked to negative numbers. Read and write Roman numerals to 500 (D) and 1000 (M), read and write years in Roman numerals.</p> <p>Addition and subtraction. Consolidate formal methods of addition and subtraction up to four digits, including decimal numbers. Solve multi-step addition and subtraction word problems.</p> <p>2D shapes including angles. Consolidate knowledge of different angle types. Solve missing angle problems, on a straight line and around a point. Investigate the properties of quadrilaterals using mathematical language.</p> <p>Multiplication. Solve missing number problems linked to knowledge of all times</p>	<p>Fractions Consolidate mixed numbers, improper fractions and equivalent fraction knowledge. Find fractions of number. Add and subtract fractions with different denominators. Multiply fractions by whole numbers.</p> <p>Decimals & Percentages Round decimals with two decimal places to the nearest unit and the nearest tenth. Show decimal and fraction equivalents of different percentages. Solve word problems linked to percentages of amounts.</p> <p>Length, perimeter, area and volume Convert between cm, m, mm and kilometres. Consolidate perimeter and area of shapes, including composite shapes. Solve perimeter problems with missing measurements. Problem solving of area and perimeter. Introduce volume.</p> <p>Graphs and Statistics Answer problems based on interpreting line graphs, including graphs with different scales. Complete, read</p>	<p>Place Value Reading, writing, ordering and comparing numbers up to one million.</p> <p>Decimals Rounding of decimal numbers up to 3 decimal places. Partition decimal numbers up to thousandths. Consolidate formal methods of addition and subtraction using decimals, and solve decimal word problems.</p> <p>Length, perimeter, area and volume Convert between different units of measurement. Estimate and measure different lengths. Consolidate understanding of perimeter, area and volume.</p> <p>2D and 3D shapes Identify 3D shapes, nets and their properties. Investigate different 3D shape nets. Identify differences between regular and irregular polygons. Describe and plot coordinates over two quadrants.</p> <p>Multiplication Consolidate square and cubed numbers. Consolidate the short and long methods of multiplication. Solve multistep multiplication word problems.</p> <p>Division Consolidate knowledge and</p>	<p>Fractions, decimals and percentages Consolidate mixed numbers, improper fractions and finding fractions of numbers. Multiply fractions and mixed numbers by whole numbers. Know and compare common fraction, decimal and percentage equivalents. Find percentages of whole numbers and solve word problems relating to this.</p> <p>Time and graphs Convert between 12 hour and 24 hour time and time units of measurement. Estimate different measurements and use of scales. Convert between units of measurements. Recognise equivalent imperial units of measurement.</p> <p>Multiplication and division (mental maths) Use mental maths methods to multiply and divide and solve a wide range of problems, including missing numbers, partitioning and factor pairs.</p> <p>Problem solving Solve multistep problems using all operations, including both mental maths and written methods. Solve reasoning problems by working systematically.</p> <p>Length, mass and capacity Solve and</p>
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	<p>problems using the inverse. Apply tests of divisibility for 2, 3, 4, 5, 10, 100. Use the formal bus stop method of division up to 3 digits including remainders. Solve division word problems.</p>	<p>grams and kilograms and litres and millilitres. Estimate and develop practical skills measuring mass and capacity. Read measurement scales linked to mass and capacity. Mental Maths, multiplication and division. Multiply and divide by 10, 100 and 1000 including decimals. Halve and double numbers including decimals. Recognise prime numbers. Calculate square numbers. Use mental maths to solve problems linked to money and measurement. Direction and coordinates. Use reflection to show the position of a shape and complete symmetrical patterns. Describe and plot coordinates in one quadrant. Translate the position of shapes in one quadrant.</p>	<p>tables. Consolidate the short method of multiplication and introduce long multiplication of two digit by two digit numbers. Solve multiplication word problems. Division. Consolidate knowledge of tests of divisibility. Consolidate the use of the short method of division with remainders, including showing remainders as fractions. Solve division word problems.</p>	<p>and interpret data presented in tables. Collect data and choose an appropriate method for presenting it. Addition and Subtraction (mental maths) Use mental maths strategies to add and subtract larger numbers. Find the sum and difference of decimal numbers. Solve addition and subtraction word problems using mental maths strategies.</p>	<p>investigate prime numbers and factors up to 100. Consolidate the use of the short method of division to solve multistep division word problems.</p>	<p>investigate problems linked to all units of measurement.</p>
<p>Science</p>	<p>Earth and space Children learn to: describe the movement of the Earth and other planets relative to the sun in the solar system. Describe the movement of the moon relative to the Earth.</p>	<p>Forces Children learn to: explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. Identify the effects of air resistance, water</p>	<p>Properties and changes of materials Children learn to: compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency,</p>	<p>Properties and changes of materials continued Children learn to: give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including</p>	<p>Working Scientifically investigations Children learn to: plan different types of scientific enquiries to answer questions, including recognising and controlling variables. Where necessary taking</p>	<p>Living things and their habitats Children learn to: describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. Describe the life process of reproduction in some plants and animals</p>

	Describe the sun, Earth and moon as approximately spherical bodies. Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.	resistance and friction that act between moving surfaces. Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect.	conductivity (electrical and thermal), and response to magnets. Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution. Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.	metals, wood and plastic. Demonstrate that dissolving, mixing and changes of state are reversible changes. Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.	measurements, using a range of scientific equipment, with increasing accuracy and precision and presenting these results in an appropriate form. Using test results to make predictions to set up further comparative and fair tests. Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations. Identifying scientific evidence that has been used to support or refute ideas or arguments.	
Learning Across the Curriculum (Foundation Subject Links)	<p>DT: Creating vinegar and bicarbonate of soda rockets to Blast Off at the start of the term! Use of DT joining skills to create 3D model solar systems – joining materials and choices of materials.</p> <p>Art: Exploring modern artists such as Jackson Pollock or Robert Rauschenberg and techniques used to create Cosmic Artwork.</p> <p>ICT: Research skills to find out about the Sun,</p>	<p>PSHE/Citizenship: Links to the story of <i>There's a Boy in the Girls' Bathroom</i> to discuss friendships and bullying. They will empathise with characters and different situations, using drama to help explore this.</p>	<p>History – Children will be exploring the timeline of the outbreak of the First World War, key events of the First World War and the impact of people living in Britain.</p> <p>Geography – Labelling and locating the different alliances involved in WWI on a map of Europe.</p>	<p>History – exploring changing attitudes to medicine and key discoveries over time, starting with the Ancient Greeks before focussing on the Black Death and the outbreak of Cholera in Victorian London.</p> <p>Geography – Children will map the spread of the Black Death across the world into Europe; they will then look at the work of Dr Snow in treating cholera in London, and will create their own</p>	<p>Art – focus on portraiture and the techniques of famous portrait artists, such as Freida Kahlo, Vincent Van Gough and Pablo Picasso. Children will create their own self-portraits inspired by these artists.</p> <p>ICT: Researching the lives on influential artists and their styles.</p>	<p>Art & DT – Creating puppets from textiles and use of different materials to create a puppet show and stage based on <i>Arabian Nights</i> stories. <u>Phoenix only</u> - specialist art unit with Miss Sides, linked to the desert topic.</p> <p>Geography – Children will need to locate deserts and describe their location using geographical language linked to continents, maps and climate zones. They will use an 8 point compass to help describe different locations. They will then</p>

	<p>Earth and Moon and other planets in our Solar System.</p> <p>Computing: Working with TurnItOn to create Scratch computer games.</p>			<p>maps of Broad Street using grid references and coordinates linking the epidemic victims to water pump locations.</p> <p>Art & DT – children creating papier maché Plague Masks.</p>		<p>create their own World maps showing the locations and names of deserts.</p>
Music	<p>Notate the pitch 3 LSO Style Project based on The Planets Suite</p> <p><i>Explore how motifs and melodies are used to represent themes within music. Developing familiarity with a famous piece of orchestral music.</i></p> <p>Pitch, duration, texture, structure, tempo, timbre, dynamics</p> <p>2a, 2b, 2c, 2d, 2e</p>	N/A	<p>Bang the Drum!</p> <p><i>Experience the tradition of African Drumming. Develop playing of complex polyrhythms. Use graphic notation.</i></p> <p>Duration, texture, structure</p> <p>2a, 2c, 2d, 2e, 2f</p>	N/A	<p>RAP time</p> <p><i>Take a journey through Hip-hop music, and gain a stylistic awareness of different genres. Compose rap lyrics and perform with accompanying rhythms.</i></p> <p>2a, 2b, 2c, 2d, 2e, 2f</p>	N/A
RE	Buddhism – The Sangha	Christianity – Who Was Jesus?	Islam – The Final Messenger	Islam – The Islamic way of life	Judaism – Jewish Life	Judaism – Passover
PE	Dodgeball (Moving Matters Scheme)	Gymnastics (Moving Matters Scheme)	Dance (Moving Matters Scheme)	Net and wall games (Moving Matters Scheme)	Athletics (Moving Matters Scheme)	Striking and Fielding (Moving Matters Scheme)
French	French: Greetings, Numbers, Introducing ourselves and Classroom instructions	French: Colours, Days of the week and Months of the year	French: Weather, Describing simple objects and expressing likes and dislikes	French: Following and giving simple instructions, expressing thanks/opinions and describing people	French: Animals, Clothes and Parts of the Body	French: Family, Food and drink and Leisure and Holidays