

Year 5 Curriculum Map 2023-24

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Maths	<p>Place value Number to a million - Roman numerals to 1,000 - Round to the nearest 10, 100 and 1000 - Compare and order numbers to a million - Round numbers to a million - Counting in 10s, 100s, 1,000s, 10,000s and 100,000s</p> <p>Addition and Subtraction - Add whole numbers with more than 4- digits (column method) - Subtract whole numbers with more than 4-digits (column method) - Round to estimate and approximate - Inverse operations (addition and subtraction) - Multi-step addition and subtraction problems</p>	<p>Multiplication and division - Multiples and Factors - Common factors - Prime numbers Square numbers - Cube numbers - Multiplying by 10, 100 and 1000 - Dividing by 10, 100 and 1000 - Multiples of 10, 100 and 1000</p> <p>Fractions Equivalent fractions - Improper fractions to mixed numbers - Mixed numbers to improper fractions - Number sequences - Compare and order fractions less than 1 - Compare and order fractions greater than 1 - Add and subtract fractions - Add fractions within 1 - Add 3 or more fractions -Add mixed numbers</p>	<p>Multiplication and division -Multiply 4-digits by 1-digit - Multiply up to 4-digits by 2-digits - Divide 4-digits by 1-digit - Divide with remainders</p> <p>Fractions Decimals and percentages Subtract fractions. - Subtract mixed numbers - Subtract – breaking the whole - Multiply unit fractions by an integer - Multiply non-unit fractions by an integer - Multiply mixed numbers by integers - Fraction of an amount - Using fractions as operators</p>	<p>Decimals and percentages Decimals up to 2 d.p - Decimals as fractions - Understand thousandths - Rounding decimals. - Order and compare decimals - Understand percentages - Percentages as fractions and decimals - Equivalent F.D.P.</p> <p>Perimeter and Area - Measure perimeter - Calculate perimeter - Area of rectangles - Area of compound shapes - Area of irregular shapes</p> <p>Statistics - Read, interpret and draw line graphs - Use line graphs to solve problems - Read and interpret tables - Two-way tables Timetables</p>	<p>Shape Measuring angles with a protractor - Drawing lines and angles accurately - Calculating angles on a straight line - Calculating angles around a point - Calculating lengths and angles in shapes - Regular and irregular polygons - Reasoning about 3D shapes</p> <p>Position and direction - Position in the first quadrant - Reflection. - Reflection with coordinates Translation - Translation with coordinates</p> <p>Decimals Adding and subtracting decimals within 1 - Complements to 1 - Adding decimals - crossing the whole - Adding and subtracting decimals with the same then</p>	<p>Negative numbers Identify negative numbers - Plot negative numbers on a number line - Apply appropriate vocabulary - Solve problems involving negative numbers</p> <p>Measurement: Converting Units - Kilograms and kilometres - Milligrams and millilitres -Metric units - Imperial units - Converting units of time - Timetables</p> <p>Volume - What is volume? - Compare volume - Estimate volume - Estimate capacity</p>

					different number of decimal places - Decimal sequences - Multiplying and dividing decimals by 10, 100 and 1000	
Literacy	*Poetry- mythical creatures *Greek myths	*Non-chron report- *Narrative	*Newspaper report- Tudor link *Non-chron report- Tudors	*Narrative- Nowhere Emporium Explanation- Magical machine	*Balanced argument- choice of big questions *Adventure story- Tom Sawyer	*Poetry - rollercoasters *Instructions – design own game and write instructions
Guided Reading	The Odyssey	The Odyssey	The Nowhere Emporium	The Nowhere Emporium	Tom Sawyer	Tom Sawyer
History / Geography	<p>Greeks Ancient Greece – a study of Greek life and achievements and their influence on the western world</p> <p>Skills: I can describe and make some links between events, situations and changes within and between different periods and societies. I can use historical periods as reference points. I can explain which causes and consequences are</p>	<p>Water, Weather, Climate Identify the position and significance of latitude, longitude, Equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle (2) Describe and understand key aspects of: physical geography, including: climate zones, biomes and vegetation belts. Describe and understand key aspects of: physical geography,</p>	<p>Local history (Hampton Court and Tudors) a local history study Skills: I can use a timeline to sequence local, national and international events as well as historical periods. I can explain my suggestions when giving reasons for and results of historical events, situations and changes.</p>	<p>Rivers Describe and understand key aspects of: physical geography, including: vegetation belts, rivers. Describe and understand key aspects of: physical geography, including: water cycles. Use fieldwork to observe, measure, record and present the human and physical features in the local area using a range of methods, including sketch maps, plans and graphs, and digital technologies (2)</p>	<p>Leisure and entertainment in the 20th century a study of an aspect or theme in British history that extends pupils' chronological knowledge beyond 1066</p> <p>Skills: When I talk and write about the past, I include good detail; I put my ideas in context (chronological and scale). I can describe and suggest some reasons for similarities and differences in society, culture and religion in Britain and the wider world. I take account of a range of information (such as the author, audience and purpose of a source, where and when it was created) when evaluating its accuracy and usefulness.</p>	

	the most significant.	including: water cycles (2) Confidently select methods for collecting, presenting and analysing data. Begin to analyse evidence and draw conclusions		Select methods for collecting, presenting and analysing data. Begin to analyse evidence and draw conclusions. Physical geography including rivers and topographical features. Explain and present the process of rivers and the climates of the given countries. Relate this to knowledge of the Northern Hemisphere Draw conclusions as to their similarities and differences Human geography including land use and how it has changed, parliamentary systems.	
Art/DT	Art Drawing – Typography and maps (drawing and design)	DT Aspect: Food Focus: Celebrating culture and seasonality	Art Surface and colour – making monotypes or mixed media land and city scapes or fashion design (hampton court link?)	DT Aspect: Textiles Focus: Combining different fabrics shapes or using computer aided design in textiles	Art Working in three dimensions – Set design (modelling) or Architecture: Dream big or small (sculpture). Leisure and entertainment in the 20th century . DT Aspect: Mechanical systems Focus: Pulleys and gears Link: Leisure and entertainment (fairground)

Science	<p>Space Describe the movement of the Earth and other planets, relative to the sun in the solar system.</p> <p>Describe the movement of the moon relative to the Earth. Describe the Sun, Earth and Moon as approximate spherical bodies.</p> <p>Use Earth rotation to explain day and night due to the apparent movement of the sun across the sky.</p> <p>Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.(Forces objective moved to support space subject knowledge)</p> <p>Working scientifically Raise questions and suggest reasons for</p>	<p>Living things and Habitats Describe the differences in life cycles of a mammal, an amphibian, an insect and a bird.</p> <p>Describe the life process of reproduction in some plants and animals.</p> <p>Working scientifically Use oral and written forms to report conclusions Present data in a variety of different ways to help answer my questions Ask relevant questions and find ways to answer them Make accurate and relevant predictions Suggest next steps based on the weakest aspects of the enquiry Record results using a bar chart and explain the results</p>	<p>Animals including Humans Describe the changes as humans develop from birth to old age.</p> <p>Working scientifically Make predictions on gestation periods Record data using scatter graphs Make careful observations as we grow older Recording learning using scientific diagrams Interpret findings to help others Evaluate my learning</p>	<p>Properties of materials Compare and group together everyday materials based on their properties, including hardness, solubility, transparency, conductivity and response to magnets.</p> <p>Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.</p> <p>Use knowledge of solid, liquid and gas to decide how mixtures might be separated including through filtering, sieving and evaporation.</p> <p>Give reasons based on evidence from comparative tests for the particular uses of everyday materials including metals, wood and plastic.</p> <p>Demonstrate that dissolving, mixing and</p>	<p>Forces Identify the effects of air resistance, water resistance and friction, that act between moving surfaces</p> <p>Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect</p> <p>Working scientifically Observe different forces and measure the force using different equipment Set up tests Interpret and communicate results from data using scientific vocabulary Plan different types of enquiry to answer a question Take measurements using a range of scientific equipment Record results in a table</p>
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	<p>similarities and differences</p> <p>Use measurement to represent planets in a model</p> <p>Record work using scientific diagrams and labels</p> <p>Use a model to discuss, communicate and justify scientific ideas using scientific vocabulary</p> <p>Present results in a variety of ways to answer a question</p> <p>Plan own test and control variables</p>			<p>changes of state are reversible changes.</p> <p>Explain that some changes result in the formation of new materials and this kind of change is not usually reversible including changes associated with burning and the action of acid on bicarbonate of soda.</p> <p>Working scientifically</p> <p>Evaluate tests</p> <p>Make predictions about which materials are soluble and insoluble</p> <p>Use scientific language and illustrations to discuss, communicate and justify ideas</p> <p>Make careful observations when heating solutions</p> <p>Plan my own test based on how materials react with one another</p> <p>Record results in a table</p>		
Computing	<p>Unit 5.1</p> <p>Coding (6 lessons)</p> <ul style="list-style-type: none"> What does simulating a 	<p>Unit 5.8</p> <p>Word processing (8 lessons)</p>	<p>Unit 5.3</p> <p>Spreadsheets (6 lessons)</p>	<p>Unit 5.4</p> <p>Databases (4 lessons)</p>	<p>Unit 5.5</p> <p>Game Creator (5 lessons)</p>	<p>Unit 5.6 - continued</p> <p>Unit 5.7</p>

	<p>physical system mean?</p> <ul style="list-style-type: none"> Describe how you would use variables to make a timer countdown and a scorepad for a game. Give examples of how you could use the Launch command in 2Code. What do the terms decomposition and abstraction mean? Use examples to explain them. <p>Unit 5.2 Online safety (3 lessons)</p> <ul style="list-style-type: none"> Who do I tell if I see anything online that makes me upset or scared? Why are passwords so important? Why is it important to reference sources in my work? 	<ul style="list-style-type: none"> What is a word processing tool used for? What features can you use to make a document more readable? <p>How do you successfully add an image to a document?</p>	<ul style="list-style-type: none"> How would you add a formula so that the cell shows the product of two other cells? What would you use in 2Calculate to have a cell that automatically calculates the number of days since a certain date? Explain what a spreadsheet model of a real-life situation is and what it can be used for? 	<ul style="list-style-type: none"> What is a database? Why is the collaborative feature important? <p>In what ways can I sort information in a database?</p>	<ul style="list-style-type: none"> What is the 2DIY3D tool on Purple Mash? What makes a good computer game? Why is it important to continually evaluate your game? <p>Unit 5.6 3D Modelling (4 lessons)</p> <ul style="list-style-type: none"> What are the different view of an object available in 2Design and Make? How can the objects designed in 2Design and Make be turned into 3D objects? How is CAD software used in industry? Give some examples. 	<p>Concept Maps (4 lessons)</p> <ul style="list-style-type: none"> What is a concept map? How is information arranged on a concept map? <p>How does a concept map help share ideas?</p>
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PSHE	Healthy sleep habits; sun safety; medicines, vaccinations , immunisation s and allergies	Personal identity; recognising individuality and different qualities; mental wellbeing	Keeping safe in different situations, including responding in emergencies , first aid	Protecting the environment; compassion towards others	How information online is targeted; different media types, their role and impact	Identifying job interests and aspirations; what influences career choices; workplace stereotypes	Managing friendships and peer influence	Physical contact and feeling safe	Responding respectfully to a wide range of people; recognising prejudice and discrimination	
RE	Christianity – What do Christians believe about creation		Judaism – What does it mean to be a part of a synagogue community?	Islam – What helps Muslims to live a good life?		Christianity – Why is the idea of “rescue” so important to Christians	Christianity – How did the church begin and where is it now?		Thematic unit - What does it mean to live a good life?	
PE	Fitness Dodgeball		Dance Handball	Fitness Tag rugby		Gymnastics Basketball	Athletics Tennis		Badminton Cricket	
Music	Exploring Rhythmic Layers 1. Exploring time signatures and performing together 2. Performing rhythms expressively 3. Exploring rhythmic texture 4. Creating and notating musical texture			Music and Words 1. Developing an understanding of the inter-related dimensions and musical vocabulary 2. Improvising musical patterns 3. Exploring Jazz 4. Composing and notating music inspired by lyrics and poetry			Song Ingredients – Exploring Melody, Harmony and Lyrics 1. Exploring melodic layers 2. Exploring scales, intervals and chords 3. Creating and playing harmonic accompaniments (drones, chords and basslines) 4. Combining lyrics, melody and harmony			
French	Les planets • Name and spell accurately some/all the planets in French on a solar map. • Say and write extended sentences for at least one planet. • Understand better the rules of adjectival agreement in French and apply these	Les jeux olympiques • Tell somebody in French the key facts of the history of the Olympics. • Tell somebody in French the key facts of the modern Olympic games. • Look for cognates and highlight key words when learning how to decode longer text in gist		La maison Tudor • Continue applying the knowledge, skills and understanding of the language as covered in units one and two. • Sit and listen attentively to Tudor history for as long as they can, concentrating on the facts told to them in French, learning how to		Le week-end • Ask what the time is in French. • Tell the time accurately in French. • Learn how to say what they do at the weekend in French. • Learn to integrate connectives into their work. • Present an account of what they do and at what		A l'ecole • Repeat and recognise the vocabulary for school subjects. • Say what subjects they like and dislike at school. • Say why they like/ dislike certain school subjects. • Tell the time (on the hour) in French. • Say what time they		Manger et bouger • Say and write what we eat and drink to stay healthy. • Say and write what we do not eat and drink to stay healthy. • Say and write the activities we do and do not do to stay in shape including a choice of physical activities.

	rules to my work improving grammatical accuracy.	listening and reading in French. <ul style="list-style-type: none"> • Say the nouns in French for key sports in the current Olympic games. • Conjugate the irregular verb FAIRE enabling the students to say what sports they play and what sports they do not play. • Understand the concept of de la, de l' and du when you say you play a sport in French 	decode longer spoken and written French that is harder and unknown to them. <ul style="list-style-type: none"> • Learn at least three adjectives in French. • Tell somebody in French at least two key facts of Tudor history. 	time at the weekend.	study certain subjects at school.	<ul style="list-style-type: none"> • Follow a simple, healthy recipe in French.
<i>Trips/Visitors</i>	Hooke Court - Greeks	Visit synagogue	Hampton Court Library/Leatherhead museum	River Mole Author Visit (Nowhere Emporium)	Leatherhead Fire and Iron Sculpture gallery	Chessington
<i>Opportunities for outdoor learning and maximising locality</i>	Olympic Games Human models of the solar system (understanding scale)	Measuring weather (rainfall, temperature etc)		Fieldwork at the river Find variety of materials to carry out tests on Forest school fires linked to burning of materials	Parachute experiment	Science parachute experiment
<i>How does the school's theologically rooted Christian vision enable pupil's adults and children to flourish?</i>	Electing house captains	Residential trip Remembrance Day Climate change	Balanced argument Protecting the environment – compassion towards others	Junior Citizen (year 6)	Managing friendships	Fiver Challenge (Year 6)