

George Fentham Endowed School Year 4 Curriculum Overview

	Autumn Term	Spring term	Summer Term
Maths	Units - Place Value, Addition and Subtraction, Multiplication and Division, Fractions and Decimals, Measurement	Units - Place Value, Addition and Subtraction, Multiplication and Division, Fractions and Decimals, Measurement, Geometry (angles, symmetry)	Units - Place Value, Addition and Subtraction, Multiplication and Division, Fractions and Decimals, Measurement, Geometry (2D shape, position and direction), Statistics
	<p><u>Number - Place Value</u></p> <ul style="list-style-type: none"> Recognise the place value of each digit in a 4-digit number (1000s, 100s, 10s, and 1s) order and compare numbers with up to 4 digits. round to the nearest 10, 100 or 1000. <p><u>Number - Addition and Subtraction</u></p> <ul style="list-style-type: none"> Begin to use place value and number facts to add numbers with up to 4 digits, including fluency in adding any pair of 2-digit numbers. Solve addition and subtraction problems in contexts, deciding which written or mental operations and methods to use and why. Use expanded column addition to add 4-digit numbers Use expanded column subtraction to subtract 4-digit numbers <p><u>Number - Multiplication and Division</u></p> <ul style="list-style-type: none"> Recall multiplication and division facts for multiplication tables (2, 3, 4, 5, 6, 8, 9 and 10 times tables) Use the distributive law to multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout (grid method) 	<p><u>Number - Place Value</u></p> <ul style="list-style-type: none"> Count on and back in multiples of 6, 7, 9, 25 and 1000 recognise the place value of each digit in a 4digit number and round these to the nearest 10, 100 or 1000 (place numbers on a number line) <p><u>Number - Addition and Subtraction</u></p> <ul style="list-style-type: none"> Add and subtract 1s, 10s and 100s to and from numbers with up to 4 digits Begin to add and subtract numbers with up to 4 digits using formal columnar addition and subtraction methods. Solve addition and subtraction 2-step problems in context. <p><u>Number - Multiplication and Division</u></p> <ul style="list-style-type: none"> Recognise and use factor pairs and commutativity in mental calculations Recall multiplication and division facts for multiplication tables (2, 3, 4, 5, 6, 7, 8, 9 and 10 times tables) Multiply 2-digit and 3-digit numbers by a 1-digit number using a formal written layout (vertical algorithm - ladder) 	<p><u>Number - Place Value</u></p> <ul style="list-style-type: none"> Find 1000 more or less than a given number. Count backwards through zero to include negative numbers Identify, represent and estimate numbers using different representations. Solve number and practical problems with increasingly large positive numbers. Read Roman numerals to 100 (I to C) and know that, over time, the numeral system changed to include the concept of zero and place value. <p><u>Number - Addition and Subtraction</u></p> <ul style="list-style-type: none"> Confidently add numbers with up to 4 digits using place value and number facts, including fluency in adding any pairs of 2-digit numbers. When appropriate, use counting up to subtract numbers with up to 4 digits. Add and subtract numbers with up to 4 digits using formal columnar addition and subtraction methods. Estimate and use inverse operations to check answers to a calculation. <p><u>Number - Multiplication and Division</u></p> <ul style="list-style-type: none"> Use place value and known and derived facts to multiply and divide 2-digit and 3-digit numbers by a 1-digit number (including

	<ul style="list-style-type: none"> • Begin to use place value and known and derived facts to divide numbers above known tables. <p><u>Fractions and Decimals</u></p> <ul style="list-style-type: none"> • Begin to recognise and show families of common equivalent fractions. • Recognise and write decimal equivalents of a $\frac{1}{2}$, $\frac{1}{4}$ and $\frac{3}{4}$ • Find the effect of dividing a 1-digit or 2-digit number by 10 <p><u>Measurement</u></p> <ul style="list-style-type: none"> • Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. • convert between different units of measure 	<ul style="list-style-type: none"> • Use place value and known and derived facts to divide numbers above known tables. <p><u>Fractions and Decimals</u></p> <ul style="list-style-type: none"> • Recognise and show families of common equivalent fractions and begin to compare fractions with non-like denominators. • Begin to multiply and divide numbers by 10 and 100, understanding that this involves a shift of the digits on a place-value grid and identify the value of the digits in the answer as ones, tenths and hundredths. • round decimals with 1 decimal place to the nearest whole number. <p><u>Measurement</u></p> <ul style="list-style-type: none"> • Estimate, compare and calculate different measures including money in £ and p. <p><u>Geometry - Properties of Shape</u></p> <ul style="list-style-type: none"> • Identify acute and obtuse angles and compare and order angles up to 2 right angles by size. • Identify lines of symmetry in 2D shapes presented in different orientations. • Complete a simple symmetric figure with respect to a specific line of symmetry. 	<p>multiplying by 0 and 1) and to multiply three 1-digit numbers.</p> <ul style="list-style-type: none"> • Multiply 2- and 3-digit numbers by a 1-digit number using formal written layout • Recall multiplication and division facts for multiplication tables up to 12×12 • Solve problems involving multiplying and adding, including integer scaling and harder correspondence problems such as n objects are connected to m objects. <p><u>Fractions and Decimals</u></p> <ul style="list-style-type: none"> • solve problems involving harder fractions to calculate quantities. • Count up and down in tenths and hundredths. • Compare numbers with up to 2 decimal places, identify the value of the digits as ones, tenths and hundredths, and round decimal numbers to the nearest whole. • Solve simple measure and money problems using fractions and decimals to 2 decimal places. • Recognise and write decimal equivalents of tenths and hundredths • Add and subtract fractions with the same denominator <p><u>Measurement</u></p> <ul style="list-style-type: none"> • Convert between different metric units of measure, e.g. km to m; solve problems involving different measures. • Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. • Find the area of rectilinear shapes by counting squares.
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Geometry - Properties of Shapes

- Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.

Geometry - Position and Direction

- Describe positions on a 2D grid as coordinates in the first quadrant.
- Describe movements between positions as translations of a unit left/right and up/down.
- Plot specified points and draw sides to complete a given polygon.

Statistics

- Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
- Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

Number - Place Value

- Recognise the place value of each digit in a 4-digit number (1000s, 100s, 10s, and 1s)
- recognise the place value of each digit in a 4digit number

Problem Solving

- Organise work in a logical way
- Describe, predict and explain patterns
- Check all solutions have been found
- Use, explain and justify mathematical reasoning
- Solve contextual problems with more than one-step, involving the four operations

English	Charlie Small's Adventures		Madame Pamplemousse by Rupert Kingfisher		The Little Broomstick by Mary Stewart	
	Action-Adventure story following a boy's diary entries as he explores the jungle. Focus: Reading Skills		Fantasy novel set in Paris with a mysterious food shop and its intriguing owner, Madame Pamplemousse Focus: Reading Skills		Mystery novel set in Shropshire and a school for witches. Focus: Reading skills	
	Bottersnikes and Gumbles by S A Wakefield	Roman Myths	Arabian Nights by Geraldine McCaughrean	Non-fiction unit: explanation texts	Poetry by Edward Lear, Lewis Carroll and T S Eliot.	Cogheart by Peter Bunzi
	Light-hearted action-adventure stories featuring some unique characters Focus: Multi-genre writing skills	A Selection of myths linked to our history topic of 'The Romans' Focus: Multi-genre writing skills	Stories from other cultures linked to our history topic of 'The Golden Age of Islam' Focus: Multi-genre writing skills	An exploration of exploration text conventions linked to our DT topic of 'Chocolate'.	Nonsense and narrative poems Focus: Multi-genre writing skills	A science fiction novel set in a retro-futuristic Victorian world with a gripping tale of a quest to protect the legendary 'cogheart'. Focus: Multi-genre writing skills

Reading skills: Focusing on the key skills of word meaning, retrieve and record, inference, predicting summarising, making comparisons and evaluating the author's use of words and phrases.

Writing Skills: Plan writing by discussing writing similar to that which they are planning to write in order to understand and learn from its structure, vocabulary and grammar and to plan by discussing and recording ideas. Composing and rehearsing sentences orally (including dialogue) building a varied and rich vocabulary. Organising paragraphs around a theme and, in narratives, creating settings, characters and plot. To begin to proofread and edit their work.

Grammar: Including choosing nouns or pronouns appropriately for clarity and cohesion and to avoid repetition, using fronted adverbials, using commas after fronted adverbials, indicating possession by using the possessive apostrophe with plural nouns and using direct speech. Be able to use age-appropriate grammatical terminology accurately

Spelling: Including using further prefixes and suffixes and spelling further homophones, spelling words from the Year 3&4 statutory spelling list and placing the possessive apostrophe accurately in words with regular plurals and in words with irregular plurals

Handwriting: Increase the legibility, consistency and quality of handwriting.

Science	Circuits and Conductors: • Investigate electrical circuits	States of Matter: • Understand properties of	Living in Environments:	Eating and Digestion: • Construct and interpret food chains	Changing Sound: • Explore how sound is made.	Scientist focus: • Research the life and work of a
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	<p>and their components.</p> <ul style="list-style-type: none"> Investigate conductors and insulators. Create electrical circuits controlled by a switch 	<p>solids, liquids and gases.</p> <ul style="list-style-type: none"> Investigate change of state when materials are heated or cooled. Explore evaporation and condensation and the water cycle 	<ul style="list-style-type: none"> Explore habitats and their animal suitability. Classify animals and plants according to characteristics Explore human impact on habitats and environments 	<ul style="list-style-type: none"> Explore teeth and their functions Investigate how the digestive system works. 	<ul style="list-style-type: none"> Investigate whether sounds can travel through different materials. Explore the relationship between distance and volume. Investigate how pitch can be altered 	<p>modern day scientist.</p> <ul style="list-style-type: none"> Present research (linked to. ICT - Writing for different audiences)
RE	<p>What impact does faith have on how we grow up?</p> <ul style="list-style-type: none"> The significance of names. The milestones of growing up in faith. The importance of First Holy Communion and the significance of the Rosary. The significance of Bar Mitzvah and Bat Mitzvah to Jews. The Hindu naming ceremony. The story of Raksha Bandhan. 	<p>How can we fulfil our duty to love one another?</p> <ul style="list-style-type: none"> How those close to us can offer us comfort and protection. The role rules and commandments play in our lives. The importance of Jesus' commandment to "Love One Another." The parable of The Good Samaritan. The life and work of William Booth. Homelessness 	<p>What impact does the sacred Arabic word of the Qu'ran have upon the followers of Islam?</p> <ul style="list-style-type: none"> The importance of calligraphy to followers of Islam. Ideas about Heaven. Reflecting on times when they have been very happy and unhappy. The story of Muhammad. The Qur'an: what it teaches Muslims and how it is an essential part of Muslim life. The Five Pillars of Islam. 	<p>What does Christian love require of believers and what might this reveal about God's love?</p> <ul style="list-style-type: none"> The Parable of The Lost Sheep Unconditional love or Agape. The story of Zacchaeus. Exploring issues raised by their learning about Christian Love. 	<p>How does Jesus' message influence the world?</p> <ul style="list-style-type: none"> The idea of Jesus "Turning the world upside-down." The Ichthus and the nature of persecution. The life of Father Damien. The Christian festival of Pentecost. 	<p>How can water be seen as a symbol of change?</p> <ul style="list-style-type: none"> John the Baptist. The consequences of a promise. The Baptism ceremony. What Baptism means to Christians. The symbolism of water in a church.
Art	<p>Celtic art and Roman mosaics:</p> <ul style="list-style-type: none"> Drawing and collage Digital art 		<p>Journeys in Art:</p> <ul style="list-style-type: none"> Drawing and painting Digital Art 		<p>Buildings - Real & Imagined:</p> <ul style="list-style-type: none"> Drawing, painting and collage 	

	<p>Children will have the opportunity to research and explore different types of Roman mosaics. They will explore colour, shape and pattern through drawing, painting and use of digital media. The children will also learn about the Celts and how they decorated themselves with paint before battle. They will use drawing techniques to draw Celtic design and their final piece will be to use their Celtic design to paint their faces, in true Celtic style!</p>			<p>Study of Artists:</p> <ul style="list-style-type: none"> Clarice Cliff, Turner, Verrocchio <p>Children will be exploring the theme of journeys in art and looking at artists such as Clarice Cliff, J.M.W Turner and Verrocchio. They will study their very different styles and look at how they depict this theme in their work. The children will create 3 different final pieces inspired by each artist and will be focus on the elements of line, tone and colour through the techniques of drawing and painting.</p>			<p>Study of Artist:</p> <ul style="list-style-type: none"> Hundertwasser <p>Children will learn all about the artist Hundertwasser and the typical features of his work. They will explore the elements of colour, shape and space. They will look at how he uses the concept of creating space in his work through the use of foreground and background. The children will create a final piece inspired by his work.</p>		
Computing	<p>Effective Search:</p> <ul style="list-style-type: none"> Develop skills and knowledge to effectively search internet search engines. Explore reliability of content. 	<p>Hardware Investigators</p> <ul style="list-style-type: none"> Understand the function of different parts of a computer. 	<p>Logo:</p> <ul style="list-style-type: none"> Learn commands and constructs of 2Logo. Compose algorithms and draw mathematica l structures. 	<p>Animation:</p> <ul style="list-style-type: none"> Develop knowledge and skills to create increasingly complex animations using 2Animate 	<p>Online Safety:</p> <ul style="list-style-type: none"> Further developing knowledge of online safety including: phishing, malware, plagiarism and healthy screen time. 	<p>Coding:</p> <ul style="list-style-type: none"> Building up vocabulary of coding words. Work with variables and if statements Debugging 	<p>Writing for different audiences:</p> <ul style="list-style-type: none"> Learn that technology can be used to organise, reorganise, develop and explore ideas 	<p>Spreadsheets:</p> <ul style="list-style-type: none"> Using formula wizards Formatting cells. Using timers and spin buttons Graphs Creating a budgeting spreadsheet 	
D&T	<p>Light it up:</p> <ul style="list-style-type: none"> Electrical systems/control Purpose: To make a card with a light up feature. 			<p>Chocolate:</p> <ul style="list-style-type: none"> Food and nutrition <p>Purpose: To make a chocolate lollypop. Including learning about the Cadbury family and how chocolate is produced and made.</p>			<p>Moving Pictures:</p> <ul style="list-style-type: none"> Mechanisms - levers and linkages Purpose: To make a storyboard with moving parts. 		
French	<p>All Around Town:</p> <ul style="list-style-type: none"> Multiples of Ten Major Cities in France Amenities in Towns 	<p>On The Move:</p> <ul style="list-style-type: none"> Using "Je" and "Tu" Simple Instructions 	<p>Going Shopping:</p> <ul style="list-style-type: none"> Shopping conversations and vocabulary Fruit Vegetables 	<p>Where in The World?</p> <ul style="list-style-type: none"> Countries Continents 	<p>What's the Time?</p> <ul style="list-style-type: none"> O' Clock Half Past 	<p>Holidays and Hobbies:</p> <ul style="list-style-type: none"> Weather Seasons Sports 			

		<ul style="list-style-type: none"> Directions and Maps 				
Geography	Geography linked to history unit on the Roman Empire: <ul style="list-style-type: none"> Understand the extent of the Roman Empire Discuss how Europe and Africa have changed. 		Geography linked to history unit on the Islamic Empire: <ul style="list-style-type: none"> Explore the location of the Islamic Empire. Develop a knowledge of the Tigris - Euphrates river system, linked to the Nile and Egyptian civilisations. 		The Globe: <ul style="list-style-type: none"> Use of world maps, atlases, globes, digital/computer mapping to locate countries. Lines of latitude and longitude, equator, northern and southern hemispheres. 	Mountains, earthquakes and volcanoes: <ul style="list-style-type: none"> Description and understanding of physical geography including mountains, volcanoes and earthquakes.
History	Romans in Britain: <ul style="list-style-type: none"> The Roman empire and the impact on Britain (55BC to 400AD). 		The Islamic Empire: <ul style="list-style-type: none"> Study of a non-European society. 		History linked to geography unit: <ul style="list-style-type: none"> Explore historical events such as the conquest of Everest, the eruption of Vesuvius 	
Music (Whole class strings teaching)	Creating Sounds and Making Music: Focus Music/ Composers/Artists: Jig (Irish traditional), Circle Madness (12 bar blues), Manhattan Blues (Blues with call + response and/or improvisation).	Pulse and Rhythm Focus Music/ Composers/Artists: Manhattan Blues (Blues), I'm a Believer (Pop), Toss the feathers (Irish traditional).	Sound and Symbol Focus Music/ Composers/Artists: Toss the Feathers, Chariots of Fire, This is Me, Barrier Reef, Sailing Home, Blue Blazes	Play and Perform Focus Music/ Composers/Artists: Toss the Feathers, Chariots of Fire, This is Me, Barrier Reef, Sailing Home, Blue Blazes, Walk on Mars, Pachelbel's Canon, Too Much Rosin, Under the Coconut Tree.	Performance Skills Focus Music/ Composers/Artists: Toss the Feathers, Chariots of Fire, This is Me, Barrier Reef, Sailing Home, Blue Blazes, Walk on Mars, Pachelbel's Canon, Too Much Rosin, Under the Coconut Tree.	Creative Sounds Focus Music/ Composers/Artists: Reach (S Club 7), Dance With Me Tonight (Olly Murs), Hot Cross Buns (F#).
PE	Cheerleading: Focus: Changing formation, Unison & Canon, Starting cheer. Competition: Class/group spirit scoring & SSP Festival	Gymnastics: Focus: Sequencing, changes in height, speed & direction - cart wheels	Dance - The Serpent: Focus: Interpretation of a theme. New moves -the meander, the hood & the wrap	Gymnastics: Focus: Core balances & taking weight on a variety of body part, shoulder stands	Cricket (Chance 2 Shine Led): Focus: Long barrier fielding, striking the ball & underarm bowling. Basic rules. Competition: Team games with results & spirit scoring, WCB Chance 2 Shine Team Tournament	
	Football: Focus: Dribbling, passing for distance & defending	Dodgeball: Focus: Introduce core dodgeball skills of throwing, catching,	Netball: Focus: Chest pass, bounce pass and shoulder pass.	Outdoor and Adventurous Activities: Focus: Problem solving & using maps.	Tennis: Focus: Backhand hitting, return the serve, & doubles	Athletics: Focus: Relay, discus & long jump. Competition: Spirit scoring, PB & Sports Day

		dodging & Blocking. Counter attack				
The School Games Values of honesty, determination, teamwork, self-belief, passion and respect underpin our curriculum offering. Within each unit of work the children will develop their understanding of a key value and use the values to participate in positive competitive experiences against themselves or others.						
PSHE (Jigsaw)	Being Me in My World: <ul style="list-style-type: none"> Being part of a class team Being a school citizen Rights, responsibilities and democracy Rewards and consequences Group decision-making Having a voice What motivates behaviour? 	Celebrating Difference: <ul style="list-style-type: none"> Challenging assumptions Judging by appearance Accepting self and others Understanding influences Understanding bullying Problem-solving Identifying how special and unique everyone is First impressions 	Dreams and Goals: <ul style="list-style-type: none"> Hopes and dreams Overcoming disappointment Creating new, realistic dreams Achieving goals Working in a group Celebrating contributions Resilience Positive attitudes 	Healthy Me: <ul style="list-style-type: none"> Healthier friendships Group dynamics Smoking Alcohol Assertiveness Peer pressure Celebrating inner strength 	Relationships: <ul style="list-style-type: none"> Jealousy Love and loss Memories of loved ones Getting on and Falling Out Girlfriends and boyfriends Showing appreciation to people and animals 	Changes: <ul style="list-style-type: none"> Being unique Having a baby Puberty Confidence in change Accepting change Preparing for transition Environmental change
Curriculum Enrichment (Amended for 2021/22, due to COVID-19)	<ul style="list-style-type: none"> Music Wider Options - Strings Cheerleading Competition (PE) Roman Soldier Visit (History) Visit to Roman House (History) After school Sports Club (Autumn 2) 		<ul style="list-style-type: none"> Music Wider Options - Strings Visit to Cadbury World (DT) 		<ul style="list-style-type: none"> Music Wider Options - Strings Cricket Tournament (PE) Church Visit (RE) Trip linked to science (TBC) After school Sports Club (Summer 1) 	
Whole School Events (Amended for 2021/22, due to COVID-19)	<ul style="list-style-type: none"> School Induction Programme Anti-Bullying Week Book Fair Parent Consultations & SEND Reviews Harvest Festival Remembrance Day/Poppy Appeal Christmas Church Service Christmas Carol Service Christmas Chronicle Competition School Council Elections Online Safety Group Elections Eco-Group Elections 		<ul style="list-style-type: none"> Online Safety Day Health Week British Science Week Easter Church Service Parent Consultations & SEND Reviews World Book Day Red Nose Day Speak Out, Stay Safe (NSPCC) Easter Church Service Marie Curie Daffodil Appeal 		<ul style="list-style-type: none"> Sports Day Open Evening Y6 Church Leavers' Service and Diocesan Leavers' Service Summer Reading Challenge Transition 	

