## George Fentham Endowed School Year 4 Curriculum Overview

	Autumn Term	Spring term	Summer Term		
Maths	Units - Place Value, Addition and Subtraction, Area, Multiplication and Division A,	Units -Multiplication and Division B, Length and Perimeter, Fractions, Decimals A,	Units -Decimals B, Money, Time, Shape, Statistics, Position and Direction		
	Number - Place Value Steps  Represent/partition numbers to 1000 Number line to 1000/10000 Thousands Represent/partition numbers to 10000 Flexible partitioning of numbers to 10000 Find 1. 10. 1000. 1000 more or less Estimate on a number line to 10000 Compare and order numbers to 10000 Roman numerals Round to the nearest 10, 100, 1000 NC objectives Read and write numbers up to 1,000 in numerals and words (Y3) Identify, represent and estimate numbers using different representations Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) (Y3) Count in multiples of 6, 7, 9, 25 and 1,000 Find 1,000 more or less than a given number Order and compare numbers beyond 1,000 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	Number - Multiplication and Division B Steps  • Factor pairs • Using factor pairs • Multiply by 10/100 • Divide by 10/100 • Related facts multiplication/division • Informal written methods - for multiplication • Multiply a 2-digit number by a 1-digit number • Multiply a 3-digit number by a 1-digit number • Divide a 2-digit number by a 1-digit number • Divide a 3-digit number by a 1-digit number • Divide a 3-digit number by a 1-digit number • Correspondence problems • Efficient multiplication  NC objectives • Recognise and use factor pairs and commutativity in mental calculations • Recall multiplication and division facts for multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 (Y5) • Solve problems involving multiplying andadding, including using the distributive law to multiply 2-digit	Steps  Make a whole with tenths Make a whole with hundredths Partition decimals Flexibly partition decimals Compare decimals Order decimals Nound to the nearest whole number Halves and quarters as decimals Recognise and write decimal equivalents of any number of tenths or hundredths Solve simple measure and money problems involving fractions and decimals to 2 decimal places Compare numbers with the same number of decimal places Round decimals with 1 decimal place to the nearest whole number Recognise and write decimal equivalents to 1/4,1/2 and 3/4  Measurement - Money  Steps Write money using decimals Convert between pounds and pence Compare amounts of money Estimate with money Solve problems with money Solve problems with money Solve problems with money Steps Estimate, compare and calculate different measures, including money in pounds and		

 Round any number to the nearest 10, 100 or 1,000

## Number - Addition and Subtraction Steps

- Add and subtract 1s, 10s, 100s and
- Add up to two 4 digit numbers-no exchange
- Add/subtract two 4 digit numbers 1 exchange
- Add/subtract two 4 digit numbers more than one exchange
- Efficient subtraction
- Estimate answers
- Checking strategies

#### NC objectives

- Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate
- Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
- Estimate and use inverse operations to check answers to a calculation

## Measurement - Area

#### Steps

- What is area
- Count squares
- Make shapes
- Compare areas

## NC objectives

Find the area of rectilinear shapes by counting squares

## $\underline{\text{Number - Multiplication and Division } \textbf{A}}$

## <u>Steps</u>

- Multiples of 3
- Multiply and divide by 6, 7 and 9
- 6,7 and 9 times tables and division facts
- The 3, 6 and 9 times tables

numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects

- Multiply 2-digit and 3-digit numbers bya 1-digit number using formal written layout
- Use place value, known and derived facts to multiply and divide mentally,including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers

## Measurement - Length and

#### **PerimeterSteps**

- Measure in kms and ms
- Equivalent lengths (kms and ms)
- Perimeter on a grid
- Perimeter of a rectangke
- Perimeter of rectilinear shapes
- Find missing lengths in rectilinearshapes
- Calculate perimeter of rectilinearshapes
- Perimeter of regular polygons/polygons

## NC objectives

- Convert between different units of measure [for example, kilometre to metre: hour to minute]
- Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres

## Number -Fractions

#### <u>Steps</u>

- Understand the whole
- Count beyond 1
- Partition a mixed number
- Number lines with mixed numbers
- Compare and order mixed numbers

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#### Measurement - Time

#### Steps

- Years, months, weeks and days
- Hours, minutes and seconds
- Convert between analogue and digital times
- Convert to/from the 24 hr clock

#### NC objectives

- Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days
- Read, write and convert time between analogue and digital 12- and 24-hour clocks

## Geometry - Shape

#### Steps

- Understand angles as turns
- Identify angles
- Compare and order angles
- Triangles
- Quadrilaterals
- Polygons
- Lines of symmetry
- Complete a symmetric figure

## NC objectives

- Recognise angles as a property of shape or a description of a turn (Y3)
- Identify acute and obtuse angles and compare and order angles up to two right angles by size
- Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
- Identify lines of symmetry in 2-D shapes presented in different orientations
- Complete a simple symmetric figure with respect to a specific line of symmetry

#### Statistics

## Steps

- Interpret charts
- Comparison, sum and difference
- Interpret/draw line graphs

## NC objectives

- 11, 12 times tables and division facts
- Multiply by 1 and 0
- Divide a number by 1 and itself
- Multiply 3 numbers

#### NC objectives

- Recall multiplication and division facts for multiplication tables up to 12 x 12
- Recognise and use factor pairs and commutativity in mental calculations
- Count in multiples of 6, 7, 9, 25 and 1,000

Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividingby 1; multiplying together three numbers

- Understand improper fractions
- Convert mixed numbers to improper fractions/ improper fractions to mixednumbers
- Equivalent fractions on a number line
- Equivalent fraction families
- Add 2 or more fractions
- Add fractions and mixed numbers
- Subtract 2 fractions
- Subtract from whole amounts/mixednumbers

#### NC objectives

- Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (Y3)
- Recognise and show, using diagrams, families of common equivalent fractions
- Add and subtract fractions with thesame denominator

#### Number - Decimals

#### Steps

- Tenths as fractions/decimals
- Tenths on a place value chart/numberline
- Divide a 1-digit number by 10
- Divide a 2-digit number by 10
- Hundredths as fractions/decimals
- Hundredths on a place value chart
- Divide a 1 or 2- digit number by 100

## NC objectives

- Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing 1-digit numbers or quantities by 10 (Y3)
- Recognise and write decimal equivalents of any number of tenths

- 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

# Geometry - Position and Direction Steps

- Describe position using co-ordinates
- Plot co-ordinates
- Draw 2D shapes on a grid
- Translate on a grid
- Describe translation on a grid

#### NC objectives

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

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English	Charlie Small's Adventures  Action-Adventure story following a boy's diary entries as he explores the jungle.  Focus: Reading Skills		Madame Pamplemousse	by Rupert Kingfisher	The Little Broomstick by Mary Stewart  Mystery novel set in Shropshire and a school for witches.  Focus: Reading skills		
			Fantasy novel set in Par food shop and its intrig Pamplemousse 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  A science fiction novel	
	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	set in a retro-futuristic Victorian world with a gripping tale of a quest to protect the legendary 'cogheart'. Focus: Multi-genrewriting 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 and their components.  Investigate conductors and insulators.  Create electrical circuits controlled by a switch	States of Matter:  Understand properties of solids, liquids and gases.  Investigate change of state when materials are heated or cooled.  Explore evaporation and condensation and the water cycle	Living in Environments:  Explore habitats and their animal suitability.  Classify animals and plants according to characteristics  Explore human impact on habitats and environments	Eating and Digestion: Construct and interpret food chains Explore teeth and their functions Investigate how the digestive system works.	<ul> <li>Changing Sound:         <ul> <li>Explore how sound is made.</li> <li>Investigate whether sounds can travel through different materials.</li> <li>Explore the relationship between distance and volume.</li> <li>Investigate how pitch can be altered</li> </ul> </li> </ul>	Scientist focus:  Research the life and work of a modern day scientist.  Present research (linked to. ICT - Writing for different audiences)
RE	What impact does faith have on how we grow up?  The significance of names.	How can we fulfil our duty to love one another?  How those close to us can offer us comfort and protection.	What impact does the sacred Arabic word of the Qu'ran have upon the followers of Islam?  • The importance of calligraphy to	What does Christian love require of believers and what might this reveal about God's love?  • The Parable of The Lost Sheep	How does Jesus' message influence the world?  • The idea of Jesus "Turning the world upside-down."	How can water be seen as a symbol of change?  John the Baptist.  The consequences of a promise.  The Baptism ceremony.

Art	The milestones of growing up in faith.  The importance First Holy Communion and the significance of Bar Mitzvah and Bat Mitzvah to Jews.  The Hindu naming ceremony.  The story of Raksha Bandhan  Celtic art and Rome Drawing and colleding to Digital art  Children will have the and explore different They will explore conthrough drawing, pai media. Children will create their own mo	command play in our soft of The importance of "Love On Another."  The para The Good Samarite of Willia of	Iments Ir lives. Ir lives. Interpretation of the serial sto of the serial sto of the serial sto.  Iment to the serial store of the serial sto.  Iment to the serial store of the serial sto.  Iment to the serial store of the ser	islam. Ideas about Ideaven. Idealecting on Imes when they Ideaven very Ideaven very Ideappy and Inhappy. Inhe story of Auhammad. Inhe Qur'an: what It teaches Auslims and how It is an essential Ideart of Muslim Idea Inhe Five Pillars of Islam. Intervery in Art: Idearice Cliff, Turner, Idearice Cliff, Turner, Intervery different Intervery differe	the theme of journeys ts such as Clarice /errocchio. They will t styles and look at ne in their work. The ferent final pieces d will be focus on the	Buildings - Rea  • Drawing, pa  Study of Artist  • Hundterwas  Children will lea Hundertwasser They will explor space. They will creating space i foreground and	of to a  The water  an  I & Imagined: inting and collage  t: sser  rn all about the are and the typical fere the elements of look at how he use n his work through	atures of his work. colour, shape and es the concept of
Computing	Search:	Hardware Investigators Understand the function of different parts of a computer.	Logo: • Learn commands and constructs of 2Logo.	Animation:  • Develop knowledge and skills to create increasingly complex	Online Safety: • Further developing knowledge of online safety including: phishing,	Coding:  Building up vocabulary of coding words.  Work with variables	Writing for different audiences: • Learn that technology can be used to organise,	Spreadsheets:  Using formula wizards Formatting cells.

	search internet search engines. • Explore reliability of content.		thms	animations using 2Animate	malware, plagiarism and healthy screen time.	and if statements Debugging	reorganise develop an explore ideas	
D&T	Light it up: Electrical systems/control Purpose: To make a card with a light up feature.		Chocolate: • Food and nutrition Purpose: To make a chocolate lollypop. Including learning about the Cadbury family and how chocolate is produced and made.		Mechanis	Moving Pictures:  Mechanisms – levers and linkages  Purpose: To make a storyboard with moving parts.		
French	<ul> <li>All Around Town</li> <li>Name some of the major cities of France.</li> <li>Identify and say typical amenities to be found</li> <li>in French towns.</li> <li>Say and order multiples of ten.</li> <li>Ask and give a simple address in French.</li> <li>Locate the correct part of a bilingual dictionary to translate from French-English or vice versa.</li> </ul>		<ul> <li>On The Move</li> <li>Name some types of transport.</li> <li>Use Je and Tu correctly in a simple sentence.</li> <li>Respond to simple instructions for direction and movement.</li> <li>Follow simple directions to find a place on a map.</li> </ul>		topic voca     Answer quusing the vocabulary     Take part as a shopp	respond to oulary. estions ropic in role play er/ r, speaking	t's the Time? Say and write a sentence to tell the time (o'clock). Count in fives to at least 30. Understand and use the terms avant and Après. Answer questions about a TV schedule.	
Geography	Geography linked to history unit on the Roman Empire:  Understand the extent of the Roman Empire  Discuss how Europe and Africa have changed.		Geography linked to history unit on the Islamic Empire:  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:  • Use of we atlases, a digital/commapping countries  • Lines of land longing equator, and south hemisphe	orld maps, lobes, omputer to locate . atitude tude, morthern tern	ntains, earthquakes volcanoes: Description and understanding of physical geography including mountains, volcanoes and earthquakes.	
History	Romans in Britain:  • The Roman empire and the impact on Britain (55BC to 400AD).			islamic Empire: tudy of a non-Europo	ean society.	<ul><li>History linke</li><li>Explore l</li></ul>	d to geography u	uch as the conquest

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	Dance - The Serpent: Focus: Interpretation of a theme. New moves -the meander, the hood & the wrap	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	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, dodging & Blocking. Counter attack	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
						fering. Within each unit of riences against themselves
PSHE (Jigsaw)	Being Me in My World:  Being part of a class team Being a school citizen Rights, responsibilities and democracy	Celebrating Difference:  Challenging assumptions  Judging by appearance Accepting self and others Understanding influences	Dreams and Goals: Hopes and dreams Overcoming disappointment Creating new, realistic dreams Achieving goals Working in a group	Healthy Me:  Healthier friendships  Group dynamics  Smoking  Alcohol  Assertiveness  Peer pressure  Celebrating inner strength	Relationships:     Jealousy     Love and loss     Memories of loved ones     Getting on and Falling Out     Girlfriends and boyfriends	Changes:     Being unique     Having a baby     Puberty     Confidence in change     Accepting change     Preparing for     transition     Environmental change

	<ul> <li>Rewards and consequences</li> <li>Group decisionmaking</li> <li>Having a voice</li> <li>What motivates behaviour?</li> <li>Understanding bullying</li> <li>Problem-solving</li> <li>Identifying how special and unique everyone is</li> <li>First impressions</li> </ul>	<ul> <li>Celebrating contributions</li> <li>Resilience</li> <li>Positive attitudes</li> </ul>	Showing     appreciation to     people and     animals
Curriculum Enrichment	<ul> <li>Music Wider Options - Strings</li> <li>Cheerleading Competition (PE)</li> <li>Roman Soldier Visit (History)</li> <li>After school Sports Club (Autumn 2)</li> </ul>	<ul> <li>Music Wider Options - Strings</li> <li>Visit to Cadbury World (DT)</li> </ul>	<ul> <li>Music Wider Options - Strings</li> <li>Cricket Tournament (PE)</li> <li>Church Visit (RE)</li> <li>Trip linked to science (TBC)</li> <li>After school Sports Club (Summer 1)</li> </ul>
Whole School Events	<ul> <li>School Induction Programme</li> <li>Anti-Bullying Week</li> <li>Book Fair</li> <li>Parent Consultations &amp; SEND Reviews</li> <li>Harvest Festival</li> <li>Remembrance Day/Poppy Appeal</li> <li>Christmas Church Service</li> <li>Christmas Carol Service</li> <li>Christmas Chronicle Competition</li> <li>School Council Elections</li> <li>Online Safety Group Elections</li> <li>Eco-Group Elections</li> </ul>	<ul> <li>Online Safety Day</li> <li>Health Week</li> <li>British Science Week</li> <li>Easter Church Service</li> <li>Parent Consultations &amp; SEND Reviews</li> <li>World Book Day</li> <li>Red Nose Day</li> <li>Speak Out, Stay Safe (NSPCC)</li> <li>Easter Church Service</li> <li>Marie Curie Daffodil Appeal</li> </ul>	<ul> <li>Sports Day</li> <li>Open Evening</li> <li>Y6 Church Leavers' Service and Diocesan Leavers' Service</li> <li>Summer Reading Challenge</li> <li>Transition</li> </ul>