Year 5 Curriculum Overview

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<td>Pupils should be taught to:

apply their growing knowledge of root words, prefixes and suffixes (morphology and etymology), as listed in English Appendix 1 in the National Curriculum both to read aloud and to understand the meaning of new words that they meet.</td>
<td>Pupils should be taught to:
▪ maintain positive attitudes to reading and understanding of what they read by:
▪ continuing to read and discuss an increasingly wide range of fiction, poetry, plays, non-fiction and reference books or textbooks
▪ reading books that are structured in different ways and reading for a range of purposes
▪ increasing their familiarity with a wide range of books, including myths, legends and traditional stories, modern fiction, fiction from our literary heritage, and books from other cultures and traditions
▪ recommending books that they have read to their peers, giving reasons for their choices
▪ identifying and discussing themes and conventions in and across a wide range of writing
▪ making comparisons within and across books
▪ learning a wider range of poetry by heart
▪ preparing poems and plays to read aloud and to perform, showing understanding through intonation, tone and volume so that the meaning is clear to an audience
▪ understand what they read by:
▪ checking that the book makes sense to them, discussing their understanding and exploring the meaning of words in context
▪ asking questions to improve their understanding</td>
<td>Pupils should be taught to:
▪ use further prefixes and suffixes and understand the guidance for adding them
▪ spell some words with ‘silent’ letters [for example, knight, psalm, solemn]
▪ continue to distinguish between homophones and other words which are often confused
▪ use knowledge of morphology and etymology in spelling and understand that the spelling of some words needs to be learnt specifically, as listed in English Appendix 1
▪ use dictionaries to check the spelling</td>
<td>Pupils should be taught to:
▪ write legibly, fluently and with increasing speed by:
▪ choosing which shape of a letter to use when given choices and deciding whether or not to join specific letters
▪ choosing the writing implement that is best suited for a task.</td>
<td>Pupils should be taught to:
▪ Pupils should be taught to:
▪ plan their writing by:
▪ identifying the audience for and purpose of the writing, selecting the appropriate form and using other similar writing as models for their own
▪ noting and developing initial ideas, drawing on reading and research where necessary
▪ in writing narratives, considering how authors have developed characters and settings in what pupils have read, listened to or seen performed
▪ draft and write by:
▪ selecting appropriate grammar and vocabulary, understanding how such choices can change and enhance meaning
▪ in narratives, describing settings, characters and atmosphere and integrating dialogue to convey character and advance the action
▪ précising longer passages
▪ using a wide range of devices to build</td>
<td>Pupils should be taught to:
▪ develop their understanding of the concepts set out in English Appendix 2 by:
▪ recognising vocabulary and structures that are appropriate for formal speech and writing, including subjunctive forms
▪ using passive verbs to affect the presentation of information in a sentence
▪ using the perfect form of verbs to mark relationships of time and cause</td>
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	▪ drawing inferences such as inferring characters' feelings, thoughts and motives from their actions, and justifying inferences with evidence ▪ predicting what might happen from details stated and implied ▪ summarising the main ideas drawn from more than one paragraph, identifying key details that support the main ideas ▪ identifying how language, structure and presentation contribute to meaning ▪ discuss and evaluate how authors use language, including figurative language, considering the impact on the reader ▪ distinguish between statements of fact and opinion ▪ retrieve, record and present information from non-fiction ▪ participate in discussions about books that are read to them and those they can read for themselves, building on their own and others' ideas and challenging views courteously ▪ explain and discuss their understanding of what they have read, including through formal presentations and debates, maintaining a focus on the topic and using notes where necessary provide reasoned justifications for their views.	and meaning of words ▪ use the first three or four letters of a word to check spelling, meaning or both of these in a dictionary ▪ use a thesaurus.		cohesion within and across paragraphs ▪ using further organisational and presentational devices to structure text and to guide the reader [for example, headings, bullet points, underlining] ▪ evaluate and edit by: ▪ assessing the effectiveness of their own and others' writing ▪ proposing changes to vocabulary, grammar and punctuation to enhance effects and clarify meaning ▪ ensuring the consistent and correct use of tense throughout a piece of writing ▪ ensuring correct subject and verb agreement when using singular and plural, distinguishing between the language of speech and writing and choosing the appropriate register ▪ proof-read for spelling and punctuation errors ▪ perform their own compositions, using appropriate intonation, volume, and movement so that meaning is clear.	▪ using expanded noun phrases to convey complicated information concisely ▪ using modal verbs or adverbs to indicate degrees of possibility ▪ using relative clauses beginning with who, which, where, when, whose, that or with an implied (i.e. omitted) relative pronoun ▪ learning the grammar for years 5 and 6 in English Appendix 2 ▪ indicate grammatical and other features by: ▪ using commas to clarify meaning or avoid ambiguity in

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					writing ▪ using hyphens to avoid ambiguity ▪ using brackets, dashes or commas to indicate parenthesis ▪ using semi-colons, colons or dashes to mark boundaries between independent clauses ▪ using a colon to introduce a list ▪ punctuating bullet points consistently ▪ use and understand the grammatical terminology in English Appendix 2 accurately and appropriately in discussing their writing and reading.

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Mathematics						
Number				**Measurement**	**Geometry**	
Number and place value	**Addition and subtraction**	**Multiplication and division**	**Fractions**	Pupils should be taught to: ▪ convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) ▪ understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints ▪ measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres ▪ calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes ▪ estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]	**Properties of shapes**	**Position and direction**
Pupils should be taught to: ▪ read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit ▪ count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 ▪ interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero ▪ round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 ▪ solve number problems and practical problems that involve all of the above read Roman numerals	Pupils should be taught to: ▪ add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) ▪ add and subtract numbers mentally with increasingly large numbers ▪ use rounding to check answers to calculations and determine, in the context of a problem, levels of	Pupils should be taught to: identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 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 multiply and divide numbers mentally drawing upon known facts 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 multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 recognise and use square numbers and cube numbers, and the notation for squared	Pupils should be taught to: ▪ compare and order fractions whose denominators are all multiples of the same number ▪ identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths ▪ recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$] ▪ add and subtract fractions with the same denominator and denominators that are multiples of the same number ▪ multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams ▪ read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$] ▪ recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents ▪ round decimals with two decimal places to the nearest whole number and to one decimal place ▪ read, write, order and compare numbers with up to three decimal places ▪ solve problems involving number up to three decimal places ▪ recognise the per cent symbol (%) and understand that per cent relates to 'number	Pupils should be taught to: ▪ identify 3-D shapes, including cubes and other cuboids, from 2-D representations ▪ know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles ▪ draw given angles, and measure them in degrees (°) ▪ identify: ▪ angles at a point and one whole turn (total 360°) ▪ angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) ▪ other multiples of 90° ▪ use the properties of rectangles to deduce related facts and find missing lengths and angles ▪ distinguish between regular and irregular polygons	Pupils should be taught to: ▪ identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed. Statistics solve comparison, sum and difference problems using information presented in a line graph

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to 1000 (M) and recognise years written in Roman numerals.	accuracy ▪ solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	(2) and cubed (3) solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. •	of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.	▪ solve problems involving converting between units of time ▪ use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.	based on reasoning about equal sides and angles.	complete, read and interpret information in tables, including timetables.

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Science				
Working scientifically	**Life cycles**	**Forces**	**Materials**	**Earth and Space**
During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content: planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs 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 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.	▪ 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.	Pupils should be taught 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 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.	Pupils should be taught to: ▪ compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, 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 ▪ give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including 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.	Pupils should be taught 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 ▪ 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.

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Art and Design	Computing	Design and Technology				
		Design and make				Cooking
		Design	Make	Evaluate	Technical knowledge	
Pupils should be taught to develop their techniques, including their control and their use of materials, with creativity, experimentation and an increasing awareness of different kinds of art, craft and design. Pupils should be taught: to create sketch books to record their observations and use them to review and revisit ideas to improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil, charcoal, paint, clay] about great artists, architects and designers in history.	Pupils should be taught to: design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts use sequence, selection, and repetition in programs; work with variables and various forms of input and output use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	Pupils should be taught to: ▪ use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups ▪ generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design	Pupils should be taught to: ▪ select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately ▪ select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities	Pupils should be taught to: ▪ investigate and analyse a range of existing products ▪ evaluate their ideas and products against their own design criteria and consider the views of others to improve their work ▪ understand how key events and individuals in design and technology have helped shape the world	Pupils should be taught to: ▪ apply their understanding of how to strengthen, stiffen and reinforce more complex structures ▪ understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] ▪ understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] ▪ apply their understanding of computing to program, monitor and control their products.	Pupils should be taught to: ▪ understand and apply the principles of a healthy and varied diet ▪ prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques ▪ understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.

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Geography				History	Music	Languages
Locational knowledge	Place knowledge	Human and physical geography	Geographical skills and fieldwork	Pupils should continue to develop a chronologically secure knowledge and understanding of British, local and world history, establishing clear narratives within and across the periods they study. They should note connections, contrasts and trends over time and develop the appropriate use of historical terms. They should regularly address and sometimes devise historically valid questions about change, cause, similarity and difference, and significance. They should construct informed responses that involve thoughtful selection and organisation of relevant historical information. They should understand how our knowledge of the past is constructed from a range of sources. In planning to ensure the progression described above through teaching the British, local and world history outlined below, teachers should combine overview and depth studies to help pupils understand both the long arc of development and the complexity of specific aspects of the content. Pupils should be taught about: changes in Britain from the Stone Age to the Iron Age a local history study - Tudors	Pupils should be taught to: play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression improvise and compose music for a range of purposes using the inter-related dimensions of music listen with attention to detail and recall sounds with increasing aural memory use and understand staff and other musical notations appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians develop an understanding of the history of music.	French
Pupils should be taught to: ▪ locate the world's countries, using maps to focus on Europe (including the location of Russia) and North and South America, concentrating on their environmental regions, key physical and human characteristics, countries, and major cities ▪ name and locate counties and cities of the United Kingdom, geographical regions and their identifying human and physical characteristics, key topographical features (including hills, mountains, coasts and rivers), and land-use patterns; and understand how some of these aspects have changed over time ▪ identify the position and significance of latitude, longitude, Equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle, the Prime/Greenwich Meridian and time zones (including day and night)	Pupils should be taught to: ▪ understand geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom, a region in a European country, and a region within North or South America	Pupils should be taught to: describe and understand key aspects of: physical geography, including: climate zones, biomes and vegetation belts, rivers, mountains, volcanoes and earthquakes, and the water cycle human geography, including: types of settlement and land use, economic activity including trade links, and the distribution of natural resources including energy, food, minerals and water	Pupils should be taught to: ▪ use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied ▪ use the eight points of a compass, four and six-figure grid references, symbols and key (including the use of Ordnance Survey maps) to build their knowledge of the United Kingdom and the wider world ▪ 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.			▪ Please see French Curriculum on our Curriculum Info page.

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PE
Pupils should be taught to: use running, jumping, throwing and catching in isolation and in combination play competitive games, modified where appropriate [for example, badminton, basketball, cricket, football, hockey, netball, rounders and tennis], and apply basic principles suitable for attacking and defending develop flexibility, strength, technique, control and balance [for example, through athletics and gymnastics] perform dances using a range of movement patterns take part in outdoor and adventurous activity challenges both individually and within a team compare their performances with previous ones and demonstrate improvement to achieve their personal best.