



Year 6 Curriculum Objectives

English	Maths	Science	Topic	ICT	Art	Foreign Language	PE	Music	PSHE
<p>Spoken Language</p> <p>En6/1a listen and respond appropriately to adults and their peers</p> <p>En6/1b ask relevant questions to extend their understanding and knowledge</p> <p>En6/1c use relevant strategies to build their vocabulary</p> <p>En6/1d articulate and justify answers, arguments and opinions</p> <p>En6/1e give well-structured descriptions, explanations and narratives for different purposes, including for expressing feelings.</p> <p>En6/1f maintain attention and participate actively in collaborative conversations, staying on topic and initiating and responding to comments</p> <p>En6/1g use spoken language to develop</p>	<p>Number & Place Value</p> <p>Ma6/2.1a read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</p> <p>Ma6/2.1b round any whole number to a required degree of accuracy</p> <p>Ma6/2.1c use negative numbers in context, and calculate intervals across 0</p> <p>Ma6/2.1d solve number and practical problems that involve all of the above.</p> <p>Ma6/2.2 Addition, Subtraction, Multiplication & Division</p> <p>Ma6/2.2a multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication</p>	<p>Working Scientifically</p> <p>Sc6/1.1 planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary</p> <p>Sc6/1.2 taking measurements, using a range of scientific equipment, with increasing accuracy and precision</p> <p>Sc6/1.3 recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and bar and line graphs</p> <p>Sc6/1.4 using test results to make predictions to set up further comparative and fair tests</p> <p>Sc6/1.5 using simple models to describe scientific ideas</p> <p>Sc6/1.6 reporting and presenting findings from enquiries, including conclusions, causal</p>	<p>History and Geography</p> <p>Ge2/1.1 Locational Knowledge</p> <p>Ge2/1.1a 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 characteristics, countries, and major cities</p> <p>Ge2/1.1b 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</p>	<p>Information Communication Technology</p> <p>Co2/1.1 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</p> <p>Co2/1.2 use sequence, selection, and repetition in programs; work with variables and various forms of input and output</p> <p>Co2/1.3 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</p> <p>Co2/1.4 understand computer networks including the internet; how they can provide multiple services, such as the world-wide web; and</p>	<p>Art and Design</p> <p>Ar2/1.1 to create sketch books to record their observations and use them to review and revisit ideas</p> <p>Ar2/1.2 to improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials</p> <p>Ar2/1.3 about great artists, architects and designers in history.</p>	<p>Listening & Comprehension</p> <p>FL2/1.1a listen attentively to spoken language and show understanding by joining in and responding</p> <p>FL2/1.1b explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words</p> <p>Speaking</p> <p>FL2/1.2a engage in conversations; ask and answer questions; express opinions and respond to those of others; seek clarification and help*</p> <p>FL2/1.2b speak in sentences, using familiar vocabulary,</p>	<p>Sport & Games</p> <p>PE2/1.1a use running, jumping, throwing and catching in isolation and in combination</p> <p>PE2/1.1b play competitive games, modified where appropriate, and apply basic principles suitable for attacking and defending</p> <p>PE2/1.1c develop flexibility, strength, technique, control and balance</p> <p>PE2/1.1d perform dances using a range of movement patterns</p> <p>PE2/1.1e take part in outdoor and adventurous activity challenges both individually and within a team</p> <p>PE2/1.1f compare their performances with previous ones and demonstrate improvement to</p>	<p>Music</p> <p>Mu2/1.1 play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression</p> <p>Mu2/1.2 improvise and compose music for a range of purposes using the interrelated dimensions of music</p> <p>Mu2/1.3 listen with attention to detail and recall sounds with increasing aural memory</p> <p>Mu2/1.4 use and understand staff and other musical notations</p> <p>Mu2/1.5 appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians</p>	<p>Personal, Social, Health and Economic</p> <p>Positive friendships, including online Responding to hurtful behaviour; managing confidentiality; recognising risks online</p> <p>Respecting differences and similarities discussing difference sensitively</p> <p>What makes a community shared responsibilities How data is shared and used</p> <p>Making decisions about money using and keeping money safe</p> <p>Maintaining a balanced lifestyle oral hygiene and dental care</p> <p>Personal identity recognising individuality and different</p>



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<p>understanding through speculating, hypothesising, imagining and exploring ideas</p> <p>En6/1h speak audibly and fluently with an increasing command of Standard English</p> <p>En6/1i participate in discussions, presentations, performances, roleplay/improvisation s and debates</p> <p>En6/1j gain, maintain and monitor the interest of the listener(s)</p> <p>En6/1k consider and evaluate different viewpoints, attending to and building on the contributions of others</p>	<p>Ma6/2.2b divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context</p> <p>Ma6/2.2c divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context</p> <p>Ma6/2.2d perform mental calculations, including with mixed operations and large numbers.</p>	<p>relationships and explanations of results, in oral and written forms such as displays and other presentations</p> <p>Sc6/1.7 identifying scientific evidence that has been used to support or refute ideas or arguments.</p> <p>Sc6/2.1 Living Things and their habitats</p> <p>Sc6/2.1a describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals</p>	<p>Ge2/1.1c 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)</p> <p>Ge2/1.2 Place Knowledge</p> <p>Ge2/1.2a 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</p>	<p>the opportunities they offer for communication and collaboration</p> <p>Co2/1.5 use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content</p> <p>Co2/1.6 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.</p>		<p>phrases and basic language structures</p> <p>FL2/1.2c develop accurate pronunciation and intonation so that others understand when they are reading aloud or using familiar words and phrases*</p> <p>FL2/1.2d present ideas and information orally to a range of audiences*</p> <p>Reading & Comprehensio n</p> <p>FL2/1.3a read carefully and show understanding of</p>	<p>achieve their personal best.</p> <p>Swimming and water safety</p> <p>All schools must provide swimming instruction either in key stage 1 or key stage 2. In particular, pupils should be taught to:</p> <p>PE2/1.2a swim competently, confidently and proficiently over a distance of at least 25 metres</p> <p>PE2/1.2b use a range of strokes effectively</p> <p>PE2/1.2c perform safe self-rescue in different water-based situations.</p>	<p>Mu2/1.6 develop an understanding of the history of music.</p>	<p>qualities; mental Wellbeing</p> <p>Medicines and household products</p> <p>drugs common to everyday life</p>
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<p>En6/1 select and use appropriate registers for effective communication</p> <p>Reading</p> <p>En6/2.1a apply their growing knowledge of root words, prefixes and suffixes (morphology and etymology)</p> <p>Comprehension</p> <p>En6/2.2a maintain positive attitudes to reading and an understanding of what they read by:</p> <ul style="list-style-type: none"> i. continuing to read and discuss an increasingly wide range of fiction, poetry, plays, non-fiction and reference books or textbooks ii. reading books that are structured in different ways and reading for a range of purposes 	<p>Ma6/2.2e identify common factors, common multiples and prime numbers</p> <p>Ma6/2.2f use their knowledge of the order of operations to carry out calculations involving the 4 operations</p> <p>Ma6/2.2g solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>Ma6/2.2h solve problems involving addition, subtraction, multiplication and division</p> <p>Ma6/2.2i use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</p> <p>Ma6/2.3 Fractions (decimals & percentages)</p>	<p>Sc6/2.1b give reasons for classifying plants and animals based on specific characteristics.</p> <p>Sc6/2.2 Animals including humans</p> <p>Sc6/2.2a identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood</p> <p>Sc6/2.2b recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function</p> <p>Sc6/2.2c describe the ways in which nutrients and water are transported within animals, including humans.</p> <p>Sc6/2.3 Evolution</p> <p>Sc6/2.3a recognise that living things have changed over time and that fossils provide information about living things that inhabited</p>	<p>a region in North or South America</p> <p>Ge2/1.3 Human and Physical Geography</p> <p>Ge2/1.3a describe and understand key aspects of physical geography, including: climate zones, biomes and vegetation belts, rivers, mountains, volcanoes and earthquakes, and the water cycle</p> <p>Ge2/1.3b describe and understand key aspects of 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</p> <p>Ge2/1.4 Geographic Skills and Fieldwork</p> <p>Ge2/1.4a use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied</p>	<p>Co2/1.7 use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact</p>		<p>words, phrases and simple writing</p> <p>FL2/1.3b appreciate stories, songs, poems and rhymes in the language</p> <p>FL2/1.3c broaden their vocabulary and develop their ability to understand new words that are introduced into familiar written material, including through using a dictionary</p> <p>Writing</p> <p>FL2/1.4a write phrases from memory, and adapt these to create new sentences, to express ideas clearly</p> <p>FL2/1.4b describe people, places, things and actions orally* and in writing</p> <p>FL2/1.4c understand basic grammar appropriate to the language being</p>			
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<p>iii. increasing their familiarity with a wide range of books, including myths, legends and traditional stories, fiction from our literary heritage, and books from other cultures and traditions</p> <p>iv. recommending books that they have read to their peers, giving reasons for their choices</p> <p>v. identifying and discussing themes and conventions in and across a wide range of writing</p> <p>vi. making comparisons within and across books</p> <p>vii. learning a wider range of poetry by heart</p> <p>viii. preparing poems and plays to read</p>	<p>Ma6/2.3a use common factors to simplify fractions; use common multiples to express fractions in the same denomination</p> <p>Ma6/2.3b compare and order fractions, including fractions >1</p> <p>Ma6/2.3c add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</p> <p>Ma6/2.3d multiply simple pairs of proper fractions, writing the answer in its simplest form</p> <p>Ma6/2.3e divide proper fractions by whole numbers</p> <p>Ma6/2.3f associate a fraction with division and calculate decimal fraction equivalents for a simple fraction.</p> <p>Ma6/2.3g identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving</p>	<p>the Earth millions of years ago</p> <p>Sc6/3.2b recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents</p> <p>Sc6/2.3c identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.</p> <p>Sc6/4.1 Light</p> <p>Sc6/4.1a recognise that light appears to travel in straight lines</p> <p>Sc6/4.1b use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye</p> <p>Sc6/4.1c explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes</p> <p>Sc6/4.1d use the idea that light travels in</p>	<p>Ge2/1.4b use the 8 points of a compass, 4 and 6-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</p> <p>Ge2/1.4c 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.</p> <p>Hi2/2.2 Extended chronological study</p> <p>Pupils should be taught a study of an aspect or theme in British history that extends pupils' chronological knowledge beyond 1066</p> <p>Hi2/2.3 Ancient Civilizations</p> <p>Pupils should be taught about the achievements of the earliest civilizations – an overview of where</p>			<p>studied, including (where relevant): feminine, masculine and neuter forms and the conjugation of high-frequency verbs; key features and patterns of the language; how to apply these, for instance, to build sentences; and how these differ from or are similar to English.</p>			
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<p>aloud and to perform, showing understanding through intonation, tone and volume so that the meaning is clear to an audience</p> <p>En6/2.2b understand what they read by</p> <ol style="list-style-type: none"> 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 drawing inferences such as inferring characters' feelings, thoughts and motives from their actions, and justifying inferences with evidence 	<p>answers are up to three decimal places</p> <p>Ma6/2.3h multiply one-digit numbers with up to 2 decimal places by whole numbers</p> <p>Ma6/2.3i use written division methods in cases where the answer has up to 2 decimal places</p> <p>Ma6/2.3j solve problems which require answers to be rounded to specified degrees of accuracy</p> <p>Ma6/2.3k recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</p> <p>Ma6/2.4 Ratio & Proportion</p> <p>Ma6/2.4a solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</p> <p>Ma6/2.4b solve problems involving the calculation of</p>	<p>straight lines to explain why shadows have the same shape as the objects that cast them</p> <p>Sc6/4.2 Electricity</p> <p>Sc6/4.2a associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit</p> <p>Sc6/4.2b compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches</p> <p>Sc6/4.2c use recognised symbols when representing a simple circuit in a diagram.</p>	<p>and when the first civilizations appeared and a depth study of one of the following:</p> <ol style="list-style-type: none"> Ancient Sumer; The Indus Valley; Ancient Egypt; or The Shang Dynasty of Ancient China <p>Hi2/2.5 Non-European Study</p> <p>Pupils should be taught about a non-European society that provides contrasts with British history - one study chosen from:</p> <ol style="list-style-type: none"> early Islamic civilization, including a study of Baghdad c. AD 900; Mayan civilization c. AD 900; or Benin (West Africa) c. AD 900-1300 						
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<p>iv. predicting what might happen from details stated and implied</p> <p>v. summarising the main ideas drawn from more than 1 paragraph, identifying key details that support the main ideas</p> <p>vi. identifying how language, structure and presentation contribute to meaning</p> <p>En6/2.2c discuss and evaluate how authors use language, including figurative language, considering the impact on the reader</p> <p>En6/2.2d distinguish between statements of fact and opinion</p> <p>En6/2.2e retrieve, record and present information from non-fiction</p> <p>En6/2.2f participate in discussions about books that are read to them and those they can read for themselves, building</p>	<p>percentages and the use of percentages for comparison</p> <p>Ma6/2.4c solve problems involving similar shapes where the scale factor is known or can be found</p> <p>Ma6/2.4d solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.</p> <p>Ma6/2.5 Algebra</p> <p>Ma6/2.5a use simple formulae</p> <p>Ma6/2.5b generate and describe linear number sequences</p> <p>Ma6/2.5c express missing number problems algebraically</p> <p>Ma6/2.5d find pairs of numbers that satisfy an equation with two unknowns</p> <p>Ma6/2.5e enumerate possibilities of combinations of 2 variables.</p>								
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<p>on their own and others' ideas and challenging views courteously</p> <p>En6/2.2g 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</p> <p>En6/2.2h provide reasoned justifications for their views.</p> <p>Writing</p> <p>En6/3.1 Spelling</p> <p>En6/3.1a use further prefixes and suffixes and understand the guidance for adding them</p> <p>En6/3.1b spell some words with 'silent' letters</p> <p>En6/3.1c continue to distinguish between homophones and other words which are often confused</p>	<p>Ma6/3.1 Measurement</p> <p>Ma6/3.1a solve problems involving the calculation and conversion of units of measure, using decimal notation up to 2 decimal places where appropriate</p> <p>Ma6/3.1b use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places</p> <p>Ma6/3.1c convert between miles and kilometres</p> <p>Ma6/3.1d recognise that shapes with the same areas can have different perimeters and vice versa</p> <p>Ma6/3.1e recognise when it is possible to use formulae for area and volume of shapes</p> <p>Ma6/3.1f calculate the area of</p>								
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<p>En6/3.1d use knowledge of morphology and etymology in spelling and understand that the spelling of some words needs to be learnt specifically</p> <p>En6/3.1e use dictionaries to check the spelling and meaning of words</p> <p>En6/3.1f use the first 3 or 4 letters of a word to check spelling, meaning or both of these in a dictionary</p> <p>En6/3.1g use a thesaurus</p> <p>En6/3.2 Handwriting and Presentation</p> <p>Pupils should be taught to write legibly, fluently and with increasing speed by:</p> <p>En6/3.2a choosing which shape of a letter to use when given choices and deciding whether or not to join specific letters</p> <p>En6/3.2b choosing the writing implement</p>	<p>parallelograms and triangles</p> <p>Ma6/3.1g calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units</p> <p>Ma6/3.2 Properties of Shape</p> <p>Ma6/3.2a draw 2-D shapes using given dimensions and angles</p> <p>Ma6/3.2b recognise, describe and build simple 3-D shapes, including making nets</p> <p>Ma6/3.2c compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons</p> <p>Ma6/3.2d illustrate and name parts of circles, including radius, diameter and circumference and know that the</p>								
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<p>that is best suited for a task</p> <p>En6/3.3 Composition</p> <p>En6/3.3a Plan their writing by:</p> <ul style="list-style-type: none"> i. identifying the audience for and purpose of the writing, selecting the appropriate form and using other similar writing as models for their own ii. noting and developing initial ideas, drawing on reading and research where necessary iii. in writing narratives, considering how authors have developed characters and settings in what pupils have read, listened to or seen performed 	<p>diameter is twice the radius</p> <p>Ma6/3.2e recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</p> <p>Ma6/3.3 Position & Direction</p> <p>Ma6/3.3a describe positions on the full coordinate grid (all 4 quadrants)</p> <p>Ma6/3.3b draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</p> <p>Ma6/4.1 Statistics</p> <p>Ma6/4.1a interpret and construct pie charts and line graphs and use these to solve problems</p> <p>Ma6/4.1b calculate and interpret the mean as an average.</p>								
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<p>En6/3.3b Draft and write by:</p> <ul style="list-style-type: none">i. selecting appropriate grammar and vocabulary, understanding how such choices can change and enhance meaningii. in narratives, describing settings, characters and atmosphere and integrating dialogue to convey character and advance the actioniii. precisng longer passagesiv. using a wide range of devices to build cohesion within and across paragraphsv. using further organisational and presentational devices to structure text and to guide the reader									
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<p>En6/3.3c Evaluate and edit by:</p> <ul style="list-style-type: none">i. assessing the effectiveness of their own and others' writingii. proposing changes to vocabulary, grammar and punctuation to enhance effects and clarify meaningiii. ensuring the consistent and correct use of tense throughout a piece of writingiv. ensuring correct subject and verb agreement when using singular and plural, distinguishing between the language of speech and writing and choosing the appropriate register <p>En6/3.3d proofread for spelling and punctuation errors</p>									
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<p>En6/3.3e perform their own compositions, using appropriate intonation, volume, and movement so that meaning is clear.</p>									
<p>En6/3.4 Vocabulary, grammar & punctuation</p>									
<p>En6/3.4a develop their understanding of the concepts by:</p>									
<p>i. recognising vocabulary and structures that are appropriate for formal speech and writing, including subjunctive forms</p>									
<p>ii. using passive verbs to affect the presentation of information in a sentence</p>									
<p>iii. using the perfect form of verbs to mark relationships of time and cause</p>									
<p>iv. using expanded</p>									



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<p>noun phrases to convey complicated information concisely</p> <p>v. using modal verbs or adverbs to indicate degrees of possibility</p> <p>vi. using relative clauses beginning with who, which, where, when, whose, that or with an implied (ie omitted) relative pronoun</p> <p>vii. learning the grammar for years 5 and 6</p> <p>En6/3.4b indicate grammatical and other features by:</p> <p>i. using commas to clarify meaning or avoid ambiguity in writing</p> <p>ii. using hyphens to avoid ambiguity</p> <p>iii. using brackets, dashes or commas to</p>									
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<p>iv. indicate parenthesis using semicolons, colons or dashes to mark boundaries between independent clauses</p> <p>v. using a colon to introduce a list</p> <p>vi. punctuating bullet points consistently</p> <p>En6/3.4c use and understand the grammatical terminology accurately and appropriately in discussing their writing and reading.</p>									
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