



The Creative Learning Journey

Rainforest heroes-Keeping us alive Y4

Wow Starter: Mantle of the Expert-using our knowledge and skills to save a rainforest creature.

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School: Cambo First School



MATHEMATICS AND COMPUTING

Number - number and place value LKS2

- **m116** count in multiples of 6, 7, 9, 25 and 1000
- **m117** find 1000 more or less than a given number
- **m119** recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)
- **m120** order and compare numbers beyond 1000
- **m122** round any number to the nearest 10, 100 or 1000
- **m123** solve number and practical problems that involve all of the above and with increasingly large positive numbers

Number - addition and subtraction LKS2

- **m125** add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
- **m126** estimate and use inverse operations to check answers to a calculation
- **m127** solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.

Number - multiplication and division LKS2

- **m128** recall multiplication and division facts for multiplication tables up to 12 × 12
- **m129** use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers
- **m130** recognise and use factor pairs and commutativity in mental calculations
- **m131** multiply two-digit and three-digit numbers by a one-digit number using formal written layout
- **m132** solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

Number - fractions (including decimals) LKS2

- **m133** recognise and show, using diagrams, families of common equivalent fractions
- **m135** solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

- **m136** add and subtract fractions with the same denominator
- **m137** recognise and write decimal equivalents of any number of tenths or hundredths
- **m138** recognise and write decimal equivalents to 1/4, 1/2, 3/4
- **m139** find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths
- **m140** round decimals with one decimal place to the nearest whole number

Measurement LKS2

- **m146** estimate, compare and calculate different measures, including money in pounds and pence
 - **m147** read, write and convert time between analogue and digital 12- and 24-hour clocks
- #### Geometry - properties of shapes LKS2
- **m150** identify acute and obtuse angles and compare and order angles up to two right angles by size
 - **m151** identify lines of symmetry in 2-D shapes presented in different orientations

LKS2

- **co14 I** can design, write and debug simple programs to control or simulate physical systems
- **co16 I** am aware that programs follow a sequence from one instruction to the next
- **co18 I** can make a program repeat a set of instructions (using FOR-NEXT)
- **co20 I** can use a variety of inputs (keyboards/keypads/switches) to enter data into a program
- **co24 I** can use search technologies effectively
- **co25 I** am aware that information from some sources may not be accurate
- **co26 I** understand that some sources are biased
- **co29 I** know the rules for keeping safe on the internet and how to be a responsible internet user
- **co30 I** know what is acceptable content and behaviour on the internet and what to do if I am, or any of my friends are, a victim of any inappropriate on-line behaviour

- **ge36 I** understand latitude and can locate and name the Equator, Northern and Southern hemispheres, the Tropics of Cancer and Capricorn and the Arctic and Antarctic circles

Place knowledge LKS2

- **ge38 I** can describe the geographical similarities and differences of the physical features of contrasting locations in the UK, Europe and a region of North and South America

Human and physical geography LKS2

- **ge39 I** understand physical geography in relation to climate zones, biomes and vegetation belts
- #### Geographical skills and fieldwork LKS2
- **ge46 I** can use a variety of paper-based and digital resources to locate and identify places and features around the world
 - **ge47 I** can read and understand eight points of a compass
 - **ge48 I** can use four and six figure grid references
 - **ge49 I** understand keys and the symbols on an O.S. map

Core Skills across the Key Stage LKS2

- **hi18 I** can place events, people and changes into correct periods of time (British, local and world history)
- **hi51 I** know about the history of my local area, how it has changed over time and some of the major events and significant people associated with it
- **hi55 I** have studied an historical theme beyond 1066 and show some understanding of the causes of change over time and the impact it had on the lives of people in Britain

UNDERSTANDING THE WORLD

Working scientifically LKS2

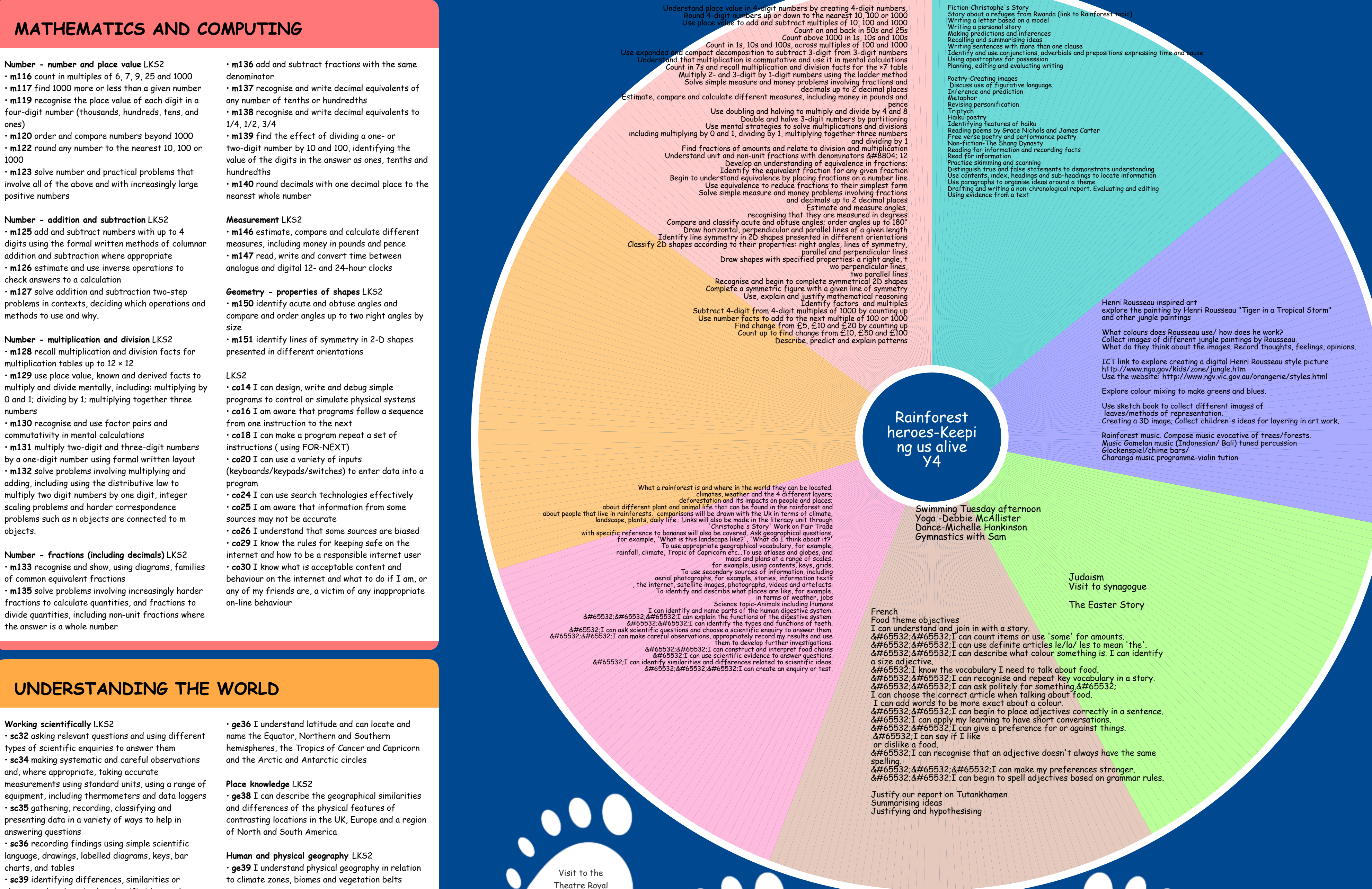
- **sc32** asking relevant questions and using different types of scientific enquiries to answer them
- **sc34** making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- **sc35** gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- **sc36** recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- **sc39** identifying differences, similarities or changes related to simple scientific ideas and processes

Animals, including humans LKS2

- **sc45** identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat
- **sc46** identify that humans and some other animals have skeletons and muscles for support, protection and movement.

Location knowledge LKS2

- **ge28 I** can identify North and South America on a map or globe
- **ge29 I** know the major cities in the countries I can identify
- **ge30 I** can talk about the environmental regions and key human and physical characteristics of the countries I can identify
- **ge32 I** can talk about the human and physical characteristics of some of the geographical regions of the UK



Rainforest heroes-Keeping us alive Y4 - Stage Coverage

UNDERSTANDING THE WORLD	MATHEMATICS AND COMPUTING	PHYSICAL EDUCATION	EXPRESSIVE ARTS AND DESIGN	LITERACY	COMMUNICATION AND LANGUAGE	PSED & RELIGIOUS EDUCATION
<p>Working scientifically LKS2</p> <ul style="list-style-type: none">• sc32 asking relevant questions and using different types of scientific enquiries to answer them• sc34 making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers• sc35 gathering, recording, classifying and presenting data in a variety of ways to help in answering questions• sc36 recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables• sc39 identifying differences, similarities or changes related to simple scientific ideas and processes <p>Animals, including humans LKS2</p> <ul style="list-style-type: none">• sc45 identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat• sc46 identify that humans and some other animals have skeletons and muscles for support, protection and movement. <p>Location knowledge LKS2</p> <ul style="list-style-type: none">• ge28 locate the world's countries, using maps to focus North and South America,• ge29 locate the world's countries, using maps to focus on major cities• ge30 locate the world's countries, using maps to focus on their environmental regions, key physical and human characteristics• ge32 name and locate geographical regions and their identifying human and physical characteristics• ge36 identify the position and significance of longitude, Equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle <p>Place knowledge LKS2</p> <ul style="list-style-type: none">• ge38 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 <p>Human and physical geography LKS2</p> <ul style="list-style-type: none">• ge39 physical geography, including: climate zones, biomes and vegetation belts <p>Geographical skills and fieldwork LKS2</p> <ul style="list-style-type: none">• ge46 use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied• ge47 use the eight points of a compass• ge48 use four and six-figure grid references• ge49 symbols and key (including the use of Ordnance Survey maps) <p>LKS2</p> <ul style="list-style-type: none">• hi18 Pupils should continue to develop a chronologically secure knowledge and understanding of British, local and world history• hi51 a local history study For example:• hi55 a study of an aspect or theme in British history that extends pupils' chronological knowledge beyond 1066 For example:	<p>Number - number and place value LKS2</p> <ul style="list-style-type: none">• m116 count in multiples of 6, 7, 9, 25 and 1000• m117 find 1000 more or less than a given number• m119 recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)• m120 order and compare numbers beyond 1000• m122 round any number to the nearest 10, 100 or 1000• m123 solve number and practical problems that involve all of the above and with increasingly large positive numbers <p>Number - addition and subtraction LKS2</p> <ul style="list-style-type: none">• m125 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate• m126 estimate and use inverse operations to check answers to a calculation• m127 solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. <p>Number - multiplication and division LKS2</p> <ul style="list-style-type: none">• m128 recall multiplication and division facts for multiplication tables up to 12 × 12• m129 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers• m130 recognise and use factor pairs and commutativity in mental calculations• m131 multiply two-digit and three-digit numbers by a one-digit number using formal written layout• m132 solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. <p>Number - fractions (including decimals) LKS2</p> <ul style="list-style-type: none">• m133 recognise and show, using diagrams, families of common equivalent fractions• m135 solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number• m136 add and subtract fractions with the same denominator• m137 recognise and write decimal equivalents of any number of tenths or hundredths• m138 recognise and write decimal equivalents to 1/4, 1/2, 3/4• m139 find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths• m140 round decimals with one decimal place to the nearest whole number <p>Measurement LKS2</p> <ul style="list-style-type: none">• m146 estimate, compare and calculate different measures, including money in pounds and pence• m147 read, write and convert time between analogue and digital 12- and 24-hour clocks <p>Geometry - properties of shapes LKS2</p> <ul style="list-style-type: none">• m150 identify acute and obtuse angles and compare and order angles up to two right angles by size• m151 identify lines of symmetry in 2-D shapes presented in different orientations <p>LKS2</p> <ul style="list-style-type: none">• co14 design, write and debug programs, controlling or simulating physical systems• co16 use sequence in programs• co18 use repetition in programs• co20 use various forms of input• co24 use search technologies effectively• co25 be discerning in evaluating digital content• co26 appreciate how results are selected and ranked• co29 use technology safely, respectfully and responsibly• co30 recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact	<p>LKS2</p> <ul style="list-style-type: none">• pe4.1 use running, jumping, throwing and catching in combination• pe5.1 play competitive games and apply basic principles suitable for attacking and defending• pe7 perform dances using a range of movement patterns <p>Swimming and water safety LKS2</p> <ul style="list-style-type: none">• pe10 swim competently, confidently and proficiently over a distance of at least 25 metres• pe10.1 use a range of strokes effectively such as front crawl, backstroke and breaststroke	<p>LKS2</p> <ul style="list-style-type: none">• ad10 to create sketch books to record their observations and use them to review and revisit ideas• ad11 to improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials (e.g. pencil, charcoal, paint, clay)• ad13 to improve their mastery of art and design techniques, including painting with a range of materials• ad15 about great artists, architects and designers in history. <p>Design LKS2</p> <ul style="list-style-type: none">• dt25 use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose• dt27 generate, develop, model and communicate their ideas through discussion and annotated sketches• dt31 generate, develop, model and communicate their ideas through computer-aided design <p>Make LKS2</p> <ul style="list-style-type: none">• dt32 select from and use a wider range of tools and equipment to perform practical tasks <p>LKS2</p> <ul style="list-style-type: none">• mu11 perform in solo and ensemble contexts, using their voices with increasing accuracy, fluency, control and expression• mu12 play musical instruments with increasing accuracy• mu14 improvise and compose music for a range of purposes• mu20 understand music drawn from different traditions	<p>Reading - word reading LKS2</p> <ul style="list-style-type: none">• e135 apply their growing knowledge of root words, prefixes and suffixes (etymology and morphology) as listed in English Appendix 1, both to read aloud and to understand the meaning of new words they meet <p>Reading - comprehension LKS2</p> <ul style="list-style-type: none">• e137 develop positive attitudes to reading and understanding of what they read by:• e138 listening to and discussing a wide range of fiction, poetry, plays, non-fiction and reference books or textbooks• e139 reading books that are structured in different ways and reading for a range of purposes• e143 preparing poems and play scripts to read aloud and to perform, showing understanding through intonation, tone, volume and action• e144 discussing words and phrases that capture the reader's interest and imagination• e149 drawing inferences such as inferring characters' feelings, thoughts and motives from their actions, and justifying inferences with evidence• e152 identifying how language, structure, and presentation contribute to meaning <p>Writing - transcription - Spelling LKS2</p> <ul style="list-style-type: none">• e155 use further prefixes and suffixes and understand how to add them (English Appendix 1)• e160 write from memory simple sentences, dictated by the teacher, that include words and punctuation taught so far. <p>Writing - handwriting LKS2</p> <ul style="list-style-type: none">• e161 use the diagonal and horizontal strokes that are needed to join letters and understand which letters, when adjacent to one another, are best left unjoined• e162 increase the legibility, consistency and quality of their handwriting [for example, by ensuring that the downstrokes of letters are parallel and equidistant; that lines of writing are spaced sufficiently so that the ascenders and descenders of letters do not touch]. <p>Writing - composition LKS2</p> <ul style="list-style-type: none">• e163 plan their writing by:• e164 discussing writing similar to that which they are planning to write in order to understand and learn from its structure, vocabulary and grammar• e165 discussing and recording ideas• e166 draft and write by:• e167 composing and rehearsing sentences orally (including dialogue), progressively building a varied and rich vocabulary and an increasing range of sentence structures (English Appendix 2)• e171 evaluate and edit by:• e172 assessing the effectiveness of their own and others' writing and suggesting improvements• e175 read aloud their own writing, to a group or the whole class, using appropriate intonation and controlling the tone and volume so that the meaning is clear. <p>Writing - vocabulary, grammar and punctuation LKS2</p> <ul style="list-style-type: none">• e176 develop their understanding of the concepts set out in English Appendix 2 by:• e177 extending the range of sentences with more than one clause by using a wider range of conjunctions, including when, if, because, although• e178 using the present perfect form of verbs in contrast to the past tense• e182 learning the grammar for years 3 and 4 in English Appendix 2• e186 using and punctuating direct speech	<p>LKS2</p> <ul style="list-style-type: none">• fl1 listen attentively to spoken language and show understanding by joining in and responding• fl2 explore the patterns and sounds of language through songs and rhymes• fl3 engage in conversations; ask and answer questions• fl3.2 engage in conversations and seek clarification and help• fl5 develop accurate pronunciation and intonation so that others understand when they are reading aloud or using familiar words and phrases• fl12 understand basic grammar appropriate to the language being studied, including (where relevant): feminine, masculine and neuter forms• sl13 listen and respond appropriately to adults and their peers• sl14 ask relevant questions to extend their understanding and knowledge• sl15 use relevant strategies to build their vocabulary• sl18 maintain attention and participate actively in collaborative conversations, staying on topic and initiating and responding to comments• sl19 use spoken language to develop understanding through speculating, hypothesising, imagining and exploring ideas• sl20 speak audibly and fluently with an increasing command of Standard English	<p>PSED Preparing to play an active role as citizens LKS2</p> <ul style="list-style-type: none">• pa21 Begin to develop negotiating strategies.• pa23 Participate in making and changing rules. <p>PSED Developing confidence and responsibility and making the most of their abilities LKS2</p> <ul style="list-style-type: none">• pc25 Be able to talk about their views on issues that effect themselves and their class.• pc27 Be able to face new challenges positively and know when to seek help. <p>PSED Developing a healthy, safer lifestyle LKS2</p> <ul style="list-style-type: none">• ph14 Follow simple, safe routines to reduce the spread of bacteria/viruses. <p>Learning About Religion LKS2</p> <ul style="list-style-type: none">• ra19 Begin to describe the key aspects of religions, especially the people, stories and traditions that influence the beliefs and values of others.• ra21 Identify and begin to describe the similarities in religions.

