

Year 4 Content Overview for 2020-2021

Art	<p>Develop ideas:</p> <ul style="list-style-type: none">• Develop ideas from starting points throughout the curriculum.• Collect information, sketches and resources.• Adapt and refine ideas as they progress.• Explore ideas in a variety of ways.• Comment on artworks using visual language. <p>Master techniques:</p> <ul style="list-style-type: none">• Use a number of brush techniques using thick and thin brushes to produce shapes, textures, patterns and lines.• Mix colours effectively.• Use watercolour paint to produce washes for backgrounds then add detail.• Experiment with creating mood with colour. <p>Collage:</p> <ul style="list-style-type: none">• Select and arrange materials for a striking effect.• Ensure work is precise.• Use coiling, overlapping, tessellation, mosaic and montage. <p>Drawing:</p> <ul style="list-style-type: none">• Use different hardnesses of pencils to show line, tone and texture.• Annotate sketches to explain and elaborate ideas.• Sketch lightly (no need to use a rubber to correct mistakes).• Use shading to show light and shadow.• Use hatching and cross hatching to show tone and texture. <p>Print:</p> <ul style="list-style-type: none">• Use layers of two or more colours.• Replicate patterns observed in natural or built environments.• Make printing blocks (e.g. from coiled string glued to a block).• Make precise repeating patterns.
Computing	<p>We are Software Developers.</p> <p>We are Toymakers.</p> <p>We are Meteorologists.</p> <p>We are Co-authors.</p> <ul style="list-style-type: none">• Motion- Use specified screen coordinates to control movement.• Looks- Set the appearance of objects and create sequences of changes.• Sound- Create and edit sounds. Control when they are heard, their volume, duration and rests.• Control - Use IF THEN conditions to control events or objects.

Year 4 Content Overview for 2020-2021

	<ul style="list-style-type: none"> Variables and lists- Use variables to store a value. Use the functions define, set, change, show and hide to control the variables.
Design and Technology	<p>Materials:</p> <ul style="list-style-type: none"> Cut materials accurately and safely by selecting appropriate tools. Measure and mark out to the nearest millimetre. Apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs). Select appropriate joining techniques.
French	<p>Speak confidently:</p> <ul style="list-style-type: none"> Understand the main points from spoken passages. Ask others to repeat words or phrases if necessary. Ask and answer simple questions and talk about interests. Take part in discussions and tasks. Demonstrate a growing vocabulary.
Geography	<p>Investigate places:</p> <ul style="list-style-type: none"> Ask and answer geographical questions about the physical and human characteristics of a location. Explain own views about locations, giving reasons. Use maps, atlases, globes and digital/computer mapping to locate countries and describe features. Use a range of resources to identify the key physical and human features of a location. Name and locate the countries of Europe and identify their main physical and human characteristics. <p>Investigate patterns:</p> <ul style="list-style-type: none"> Describe geographical similarities and differences between countries.
History	<p>Investigate and interpret the past:</p> <ul style="list-style-type: none"> Use evidence to ask questions and find answers to questions about the past. Suggest suitable sources of evidence for historical enquiries. Use more than one source of evidence for historical enquiry in order to gain a more accurate understanding of history. Describe different accounts of a historical event, explaining some of the reasons why the accounts may differ. Suggest causes and consequences of some of the main events and changes in history. <p>Understand chronology:</p> <ul style="list-style-type: none"> Place events, artefacts and historical figures on a time line using dates. Understand the concept of change over time, representing this, along with evidence, on a time line.

Year 4 Content Overview for 2020-2021

	<ul style="list-style-type: none">• Use dates and terms to describe events. Communicate historically: <ul style="list-style-type: none">• Use appropriate historical vocabulary to communicate, including:<ul style="list-style-type: none">• dates• time period• era• change• chronology.• Use literacy, numeracy and computing skills to a good standard in order to communicate information about the past.
Maths	Know and use numbers <ul style="list-style-type: none">• Count in multiples of 2 to 9, 25, 50, 100 and 1000.• Find 1000 more or less than a given number.• Count backwards through zero to include negative numbers.• Identify, represent and estimate numbers using different representations.• 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.• Order and compare numbers beyond 1000.• Recognise the place value of each digit in a four-digit number. (thousands, hundreds, tens, and ones)• Round any number to the nearest 10, 100 or 1000. Solve number and practical problems with increasingly large positive numbers. Add and subtract <ul style="list-style-type: none">• Solve two-step addition and subtraction problems in contexts, deciding which operations and methods to use and why.• Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.• Add and subtract numbers mentally, including:<ul style="list-style-type: none">• A three-digit number and ones.• A three-digit number and tens.• A three-digit number and hundreds.• Estimate and use inverse operations to check answers to a calculation.• Solve problems, including missing number problems, using number facts, place value and more complex addition and subtraction. Multiply and divide <ul style="list-style-type: none">• Solve problems involving multiplying and dividing, 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).

Year 4 Content Overview for 2020-2021

	<ul style="list-style-type: none">• Multiply two-digit and three-digit numbers by a one-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 three numbers.• Recognise and use factor pairs and commutativity in mental calculations.• Recognise and use the inverse relationship between multiplication and division and use this to check calculations and solve missing number problems.• Recall multiplication and division facts for multiplication tables up to 12×12. <p>Fractions</p> <ul style="list-style-type: none">• Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.• Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.• Round decimals with one decimal place to the nearest whole number.• Compare numbers with the same number of decimal places up to two decimal places.• Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.• Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.• Compare and order unit fractions and fractions with the same denominators.• Recognise and show, using diagrams, families of common equivalent fractions.• Recognise and write decimal equivalents of any number of tenths or hundredths.• Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$.• Add and subtract fractions with the same denominator within one whole.• Solve problems involving increasingly harder fractions.• Calculate quantities and fractions to divide quantities (including non-unit fractions where the answer is a whole number).• Add and subtract fractions with the same denominator.• 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.• Solve simple measure and money problems involving fractions and decimals to two decimal places. <p>Understand the properties of shapes</p>
--	---

Year 4 Content Overview for 2020-2021

	<ul style="list-style-type: none">• Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.• Recognise angles as a property of shape or a description of a turn.• Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle.• Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.• Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.• Identify acute and obtuse angles and compare and order angles up to two right angles by size.• 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. <p>Describe position, direction and movement</p> <ul style="list-style-type: none">• Recognise angles as a property of shape and as an amount of rotation.• Identify right angles, recognise that 2 right angles make a half turn and 4 make a whole turn.• Identify angles that are greater than a right angle.• Describe positions on a 2-D grid as coordinates in the first quadrant.• Describe movements between positions as translations of a given unit to the left/right and up/down.• Plot specified points and draw sides to complete a given polygon. <p>Use measures</p> <p>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).</p> <ul style="list-style-type: none">• Measure the perimeter of simple 2-D shapes.• Add and subtract amounts of money to give change. (£ and p)• Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.• Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use appropriate vocabulary.• Know the number of seconds in a minute and the number of days in each month, year and leap year.• Compare durations of events.• Convert between different units of measure. (for example, kilometre to metre; hour to minute)
--	--

Year 4 Content Overview for 2020-2021

	<ul style="list-style-type: none"> • Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. • Find the area of rectilinear shapes by counting squares. • Estimate, compare and calculate different measures, including money in pounds and pence. • Read, write and convert time between analogue and digital 12- and 24-hour clocks. • Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. <p>Use statistics Interpret and present data using bar charts, pictograms and tables.</p> <ul style="list-style-type: none"> • Solve one-step and two-step questions (for example, 'How many more?' and 'How many fewer?') using information presented in scaled bar charts, pictograms and tables. • 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. <p>Use algebra</p> <ul style="list-style-type: none"> • Solve addition and subtraction, multiplication and division problems that involve missing numbers.
Music	<p>Perform:</p> <ul style="list-style-type: none"> • Maintain a simple part within a group. • Play notes on an instrument with care so that they are clear. • Perform with control and awareness of others. <p>Transcribe:</p> <ul style="list-style-type: none"> • Recognise the notes EGBDF and FACE on the musical stave.
P.E.	<p>Dance:</p> <ul style="list-style-type: none"> • Plan, perform and repeat sequences. • Move in a clear, fluent and expressive manner. • Refine movements into sequences. • Create dances and movements that convey a definite idea. • Change speed and levels within a performance. • Develop physical strength and suppleness by practising moves and stretching.
PSHE	<p>Healthy lifestyles:</p> <ul style="list-style-type: none"> • Know that they can make choices which are healthy or unhealthy and reflect on their own lifestyle.

Year 4 Content Overview for 2020-2021

	<ul style="list-style-type: none"> • Know that eating healthily, being active and sleeping all contribute to a healthy lifestyle. • Understand some of the reasons people sometimes make unhealthy choices. • Be able to talk about some of the physical and mental benefits of exercise. • Know that a healthy lifestyle involves choosing a range of activities, some of which will be more active than others. • Be able to state some of the influences on food choices and some of the persuasive methods used in advertising. • Understand why our bodies need foods from each of the food groups and be able to suggest daily menus or meals. • Be able to talk about the benefits of food for our bodies and plan and prepare simple healthy meals or snacks. • Know why dental hygiene is important and how they can look after their teeth. <p>Financial capability:</p> <ul style="list-style-type: none"> • know that we receive money through a variety of means, including paid work. • know ways to keep money safe, including saving it. • understand that some of the ways we use money can make it grow or involve risk. • understand that we make choices about spending for many different reasons. • begin to understand that the choices we make affect us, our communities and the wider world. • begin to understand and manage the sometimes uncomfortable and changing feelings we have about money. <p>Valuing difference and keeping safe (Year 3 SRE unit):</p> <ul style="list-style-type: none"> • Explore the differences between males and females and to name the body parts. • Consider touch and to know that a person has the right to say what they like and dislike. • Explore different types of families and who to go to for help and support.
R.E.	<p>Founders of religions. Beliefs and teachings. Life changing experiences. Death and afterlife. Initiation ceremonies.</p> <p>Understand beliefs and teachings:</p> <ul style="list-style-type: none"> • Present the key teachings and beliefs of a religion. • Refer to religious figures and holy books to explain answers. <p>Understand practices and lifestyles:</p>

Year 4 Content Overview for 2020-2021

	<ul style="list-style-type: none">• Identify religious artefacts and explain how and why they are used.• Describe religious buildings and explain how they are used.• Explain some of the religious practices of both clerics and individuals. <p>Understand how beliefs are conveyed:</p> <ul style="list-style-type: none">• Identify religious symbolism in literature and the arts. <p>Reflect:</p> <ul style="list-style-type: none">• Show an understanding that personal experiences and feelings influence attitudes and actions.• Give some reasons why religious figures may have acted as they did.• Ask questions that have no universally agreed answers. <p>Understand values:</p> <ul style="list-style-type: none">• Explain how beliefs about right and wrong affect people's behaviour.• Describe how some of the values held by communities or individuals affect behaviour and actions.• Discuss and give opinions on stories involving moral dilemmas.
Reading	<p>Read words accurately:</p> <ul style="list-style-type: none">• Apply a growing knowledge of root words, prefixes and suffixes (etymology and morphology).• Read further exception words, noting the spellings. <p>Understand texts:</p> <ul style="list-style-type: none">• Draw inferences from reading.• Predict from details stated and implied.• Recall and summarise main ideas.• Discuss words and phrases that capture the imagination.• Retrieve and record information from non-fiction, using titles, headings, sub-headings and indexes.• Prepare poems and plays to read aloud with expression, volume, tone and intonation.• Identify recurring themes and elements of different stories (e.g. good triumphing over evil).• Recognise some different forms of poetry.• Explain and discuss understanding of reading, maintaining focus on the topic.• Draw inferences such as inferring characters' feelings, thoughts and motives from their actions, and justifying inferences with evidence.• Predict what might happen from details stated and implied.• Identify main ideas drawn from more than one paragraph and summarise these.• Identify how language, structure and presentation contribute to meaning.

Year 4 Content Overview for 2020-2021

Science	<ul style="list-style-type: none"> • Ask questions to improve understanding of a text. <p>Rocks and Soils:</p> <ul style="list-style-type: none"> • Compare and group together different kinds of rocks on the basis of their simple, physical properties. • Relate the simple physical properties of some rocks to their formation (igneous or sedimentary). • Describe in simple terms how fossils are formed when things that have lived are trapped within sedimentary rock. • Recognise that soils are made from rocks and organic matter. <p>Investigate living things:</p> <ul style="list-style-type: none"> • Recognise that living things can be grouped in a variety of ways. • Explore and use classification keys. • Recognise that environments can change and that this can sometimes pose dangers to specific habitats. <p>Understand animals and humans:</p> <ul style="list-style-type: none"> • Identify that animals, including humans, need the right types and amounts of nutrition, that they cannot make their own food and they get nutrition from what they eat. • Construct and interpret a variety of food chains, identifying producers, predators and prey. • Identify that humans and some animals have skeletons and muscles for support, protection and movement. • Describe the simple functions of the basic parts of the digestive system in humans. • Identify the different types of teeth in humans and their simple functions. <p>Understand light and seeing:</p> <ul style="list-style-type: none"> • Recognise that they need light in order to see things and that dark is the absence of light. • Notice that light is reflected from surfaces. • Recognise that light from the sun can be dangerous and that there are ways to protect their eyes. • Recognise that shadows are formed when the light from a light source is blocked by a solid object. • Find patterns in the way that the size of shadows change.
Writing	<p><u>Composition</u></p> <p>Write with Purpose</p> <ul style="list-style-type: none"> • Use the main features of a type of writing (identified in reading). • Use techniques used by authors to create characters and settings. • Compose and rehearse sentences orally. • Plan, write, edit and improve. <p>Use Imaginative Description</p>

Year 4 Content Overview for 2020-2021

	<ul style="list-style-type: none">• Create characters, settings and plots.• Use alliteration effectively.• Use similes effectively.• Use a range of descriptive phrases including some collective nouns. <p>Organise Writing Appropriately</p> <ul style="list-style-type: none">• Use organisational devices such as headings and sub headings.• Use the perfect form of verbs to mark relationships of time and cause.• Use connectives that signal time, shift attention, inject suspense and shift the setting. <p>Use Paragraphs</p> <ul style="list-style-type: none">• Organise paragraphs around a theme.• Sequence paragraphs. <p>Use Sentences Appropriately</p> <ul style="list-style-type: none">• Use a mixture of simple, compound and complex sentences.• Write sentences that include:<ul style="list-style-type: none">• conjunctions• adverbs• direct speech, punctuated correctly• clauses• adverbial phrases. <p><u>Transcription</u></p> <p>Present Neatly</p> <ul style="list-style-type: none">• Join letters, deciding which letters are best left un-joined.• Make handwriting legible by ensuring downstrokes of letters are parallel and letters are spaced appropriately. <p>Spell Correctly</p> <ul style="list-style-type: none">• Use prefixes and suffixes and understand how to add them.• Spell homophones correctly.• Spell correctly often misspelt words.• Place the possessive apostrophe accurately in words with regular plurals (for example, girls', boys') and in words with irregular plurals (for example, children's).• Use the first two or three letters of a word to check its spelling in a dictionary.• Write from memory simple sentences, dictated by the teacher, that include words and punctuation taught so far. <p>Punctuate Accurately</p> <ul style="list-style-type: none">• Develop understanding of writing concepts by:<ul style="list-style-type: none">• Extending the range of sentences with more than one clause by using a wider range of conjunctions, including when, if, because, although.• Using the present perfect form of verbs in contrast to the past tense.
--	---

Year 4 Content Overview for 2020-2021

	<ul style="list-style-type: none">• Choosing nouns or pronouns appropriately for clarity and cohesion and to avoid repetition.• Using conjunctions, adverbs and prepositions to express time and cause.• Using fronted adverbials.• Indicate grammatical and other features by:<ul style="list-style-type: none">• Using commas after fronted adverbials.• Indicating possession by using the possessive apostrophe with plural nouns.• Using and punctuating direct speech. <p><u>Analysis and Presentation</u></p> <p>Analyse Writing</p> <ul style="list-style-type: none">• Use and understand grammatical terminology when discussing writing and reading:<ul style="list-style-type: none">• pronoun, possessive pronoun, adverbial. <p>Present Writing</p> <ul style="list-style-type: none">• Read aloud writing to a group or whole class, using appropriate intonation.
--	---

Year 4 Content Overview for 2020-2021