



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Maths	<p>Understand numbers to 1,000,000</p> <p>Multiplying and dividing by 10, 100 and 1000</p> <p>Multiplying and dividing up to 4 digit numbers</p> <p>Round numbers to the nearest 100, 1000, 10 000 and 100 000 using number lines</p> <p>Compare numbers to 1 000 000 from pictorial representations, using lists and number lines</p> <p>x and ÷ decimals to two places on paper</p> <p>+ and – decimals numbers</p> <p>Interpret negative numbers in context, count forwards and backwards with positive and negative numbers</p> <p>Know & use the vocab of prime numbers, prime factors and composite (non-prime) numbers</p> <p>Establish whether a number up to 100 is prime and recall prime numbers up to 19</p> <p>Recognise and use square and cube numbers, including their notation (n^2, n^3)</p>	<p>Understand that per cent relates to 'number of parts per hundred', know the % symbol, write % as a fraction over 100 and as a decimal</p> <p>Divide whole numbers to create fractions; to create mixed numbers and improper fractions when dividing whole numbers</p> <p>Add together unlike fractions where the sum is greater than 1, creating mixed numbers or improper fractions</p> <p>Subtract fractions with different denominators; subtract fractions from whole numbers</p> <p>Write improper fractions and mixed numbers using a number line and pictorial methods</p> <p>Solve problems using percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$</p> <p>Compare quantities; compare fractions, decimals and percentages; convert fractions to decimals and percentages</p> <p>Find a percentage of a number by converting</p>	<p>Find the area and perimeter of composite shapes made up of rectangles</p> <p>Calculate the area of a shape</p> <p>Understand the volume of solids and find the volume of 3D shapes</p> <p>Find the capacity of cuboids</p> <p>Understand and use basic equivalences between metric and common imperial units</p> <p>Calculate the volume of cuboids both by counting cubes and by use of a formula</p> <p>Solve simple ratio and proportion problems</p> <p>Describe positions on the full co-ordinate grid</p> <p>Rotate a shape on a co-ordinate grid</p> <p>Describe the order of rotational symmetry of a shape</p> <p>Understand the term 'congruent' in relation to shapes after translation, reflection or rotation</p> <p>Use language associated with probability</p>			

	<p>Find the positive square root of a square number</p> <p>Use knowledge of the order of operations to carry out calculations (BODMAS)</p> <p>Interpret and construct pie charts</p> <p>Read/interpret information in a table</p> <p>Read and interpret information presented on a line graph where the data is represented by more than one line</p> <p>Read and interpret information presented in a table and turn it into a line graph; to determine relationships between data sets</p>	<p>the percentage to a fraction</p> <p>Reduce a fraction to its simplest form</p> <p>Recall and use equivalences between simple fractions, decimals and percentages</p> <p>Know the angle sum of a straight line, a triangle and of angles at a point and use this to find missing angles</p> <p>Construct triangles and a range of 2D shapes using protractors</p> <p>Know the names and qualities of acute, right, obtuse and reflex angles</p> <p>Measure angles using a protractor; identify two angles which add up to 180 degrees on a straight line</p> <p>Investigate the angles of various quadrilaterals, including squares and rectangles</p> <p>Investigate regular polygons</p> <p>Add and subtract amounts in decimals</p> <p>Add and subtract decimals to find the smallest possible sum and difference</p>	<p>such as fair, certain or likely, and to be able to refer to data in explaining whether a die is fair or biased</p> <p>Understand/use the probability scale from 0 to 1</p> <p>Find the n^{th} term of a sequence</p> <p>Solve simple algebraic equations</p> <p>Write Roman numerals to 1000</p>
<p>Priority is given to mental arithmetic, problem solving and reasoning throughout the academic year.</p>			

<p>English</p>	<p>The man who walked between the towers – Mordecai Gerstein (Narrative - Entertain)</p> <p>An Anthology of Intriguing Animals By Ben Hoare (non-chronological - Inform)</p>	<p>The Journey Home – Frann Preston-Gannon (Non-Fiction - Inform)</p> <p>A Christmas Carol (Classic Fiction & Narrative - Entertain)</p>	<p>Speaking Presentations ESB Style (Inform & Entertain)</p> <p>Secrets of a Sun King by Emma Carroll (Narrative - Entertain)</p>	<p>Secrets of a Sun King by Emma Carroll (Narrative - Entertain)</p> <p>A River By Marc Martin (Narrative - Entertain)</p>	<p>Short Story Writing unit</p> <p>Jabberwocky by Lewis Carroll (Narrative Poetry – Entertain)</p>	<p>The Wind in the Willows (Picture book) By Timothy Knapman (Narrative – Entertain and Inform)</p>
<p>Comprehension skills and spelling are taught throughout the year within English lessons and guided reading sessions alongside Accelerated Reader. Spelling, punctuation and grammar skills are embedded in English lessons throughout the year. See here for further information.</p>						
<p>Science</p>	<p>Properties & Changes of Materials & Gases</p> <p>Learning Outcomes:</p> <p>Describe the properties, and make comparisons between solids, liquids and gases.</p> <p>Make distinctions and describe the particle structure of particles of solids, liquids and gases.</p> <p>Recognise that air is a material and that it</p>	<p>Animals Including Humans</p> <p>Learning Outcomes:</p> <p>Identify and name the main parts of the human circulatory system, and describe the structure and function of the heart, blood vessels and blood.</p> <p>Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function</p> <p>Recognise the effect of exercise and rest</p>	<p>Forces</p> <p>Learning Outcomes:</p> <p>Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object</p> <p>Identify the effects of air resistance, water resistance and friction, that act between moving surfaces</p>		<p>Living Things & Their Habitats</p> <p>Learning Outcomes:</p> <p>Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.</p> <p>Describe the life process of reproduction in some plants and animals (sexual/asexual reproduction in plants).</p> <p>Name and explain the functions of</p>	

	<p>is one of a range of gases which have important uses.</p> <p>Understand the properties of gases in connection with diffusion, compression, weight, volume and force</p> <p>Know that liquids evaporate to form gases and that gases change shape and flow from place to place.</p> <p>Explain the relationship between solids, liquids and gases in terms of the water cycle.</p> <p>Understand the burning triangle and how to put out a fire.</p>	<p>on pulse rate.</p> <p>Describe the ways in which nutrients and water are transported in animals, including humans.</p> <p>Describe the lung structure in gas exchange, including the effect of smoking.</p> <p>Know major parts of the body and the function of some organ systems.</p>	<p>Describe situations in which frictional forces are helpful as well as those in which they resist motion</p> <p>Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect</p> <p>Identify how forces are measured (newton N) and identify the direction in which they act.</p> <p>That when objects (table, spring) are pushed or pulled, an opposing pull or push can be felt.</p> <p>Know that a unit of force is the newton and that forces can be measured using a force meter.</p>		<p>some parts of the flower.</p> <p>Describe the processes of pollination, fertilisation, seed dispersal and germination.</p> <p>How plants and animals found in different habitats differ and how they are adapted to their environment (nocturnal, hibernation, migration).</p> <p>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>Give reasons for classifying plants and animals based on specific characteristics.</p>	
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					<p>Classify living things in major taxonomic groups (Carl Linnaeus).</p> <p>Use keys to identify plants and animals.</p>	
<p>During years 5 and 6, pupils will be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:</p> <ul style="list-style-type: none"> • 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 a 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 						
History		<p>Tudors</p> <p>To look at the everyday life of a Tudor Monarch</p> <p>To compare with life of everyday people</p> <p>To be familiar with Tudor buildings and their internal features</p> <p>To be familiar with the different Tudor</p>		<p>Ancient Egypt</p> <p>What do the hieroglyphs tell us of Egyptian culture and society</p> <p>To understand what an archaeologist does</p> <p>To understand the difficulty of making conclusions about the past using only</p>		<p>Crime and punishment chronology unit</p> <p>To explore how crime and punishment methods have evolved since the medieval period. Draw upon similarities and differences</p> <p>To consider how</p>

		<p>monarchs</p> <p>To learn about Henry VIII (less about 6 wives, more emphasis reformation of Christianity) – what evidence do we have?</p> <p>To understand the reasons for Royal marriages</p> <p>To introduce some of the changes that were taking place in people’s ideas at this time.</p> <p>To examine the reasons why Tudor people explored outside Europe.</p> <p>To examine life at Sea.</p> <p>To research the life of a famous seafarer (Drake) and place in the context of the 16th C</p> <p>To look at different</p>		<p>material remains</p> <p>To describe different features of a historical period</p> <p>To source, sort and interpret information on Ancient Egypt</p> <p>To compare myth and fact in Egyptian life and to be aware that different stories about the past can give different versions of what happened</p> <p>To make deductions from historical sources</p> <p>To learn about the importance of the afterlife</p> <p>To study farming, everyday life, houses and clothes, the role of women</p> <p>To learn about important pharaohs</p>		<p>people’s beliefs impacted the judicial system</p> <p>Reflect on cause and consequences of significant events such as the Peasant revolt and the 17th Century witch hunts.</p> <p>Reflect on why crime rates have peaked at various times in history and use historical records to find out more</p> <p>To learn about key historical figures such as Sir Robert Peel and Matthew Hopkins and evaluate the impact they had on law and justice at the time</p>
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		<p>points of view and different ways of portraying the same story</p> <p>To understand the effect of Tudor exploration on our lives today.</p> <p>To position this within the reign of Elizabeth I and the political situation of the time.</p>		and the Great pyramid		
Geography	<p>South America</p> <p>Use a range of maps to explore the topography and climate of South America. Compare different countries within the continent.</p> <p>Explore the area of the Amazon Rainforest and investigate how deforestation affects different groups within society. Discover how the rainforest can be</p>		<p>What is a River?</p> <p>Locational Knowledge Europe including Russia United Kingdom Latitude and longitude Northern and Southern Hemisphere</p> <p>Place Knowledge A region of the United Kingdom</p> <p>Human & Physical Rivers and the water</p>		<p>Mapping and location</p> <p>Location study of North Devon linked to Year 5 residential to Bideford. Where is it located and how would we get there?</p> <p>Use maps to explore the area of Bideford. Identify key features of the area using a range of different maps.</p> <p>Explore North Devon as a tourist</p>	

	<p>used in a sustainable way.</p> <p>Explore the diverse cultures within South America, finding out about festivals such as the Rio Carnival</p> <p>Locational Knowledge North America United Kingdom Latitude and longitude Northern and Southern Hemisphere</p> <p>Human & Physical Climate zones Biomes and vegetation belts Types of settlement and land use Natural resources</p> <p>Skills & Fieldwork Maps, atlases, globes and digital/computer mapping Map symbols and key</p>		<p>cycle Natural resources</p> <p>Skills & Fieldwork Maps, atlases, globes and digital/computer mapping Eight points of compass Four and six figure grid references Map symbols and key and the use of Ordnance Survey maps Fieldwork –observe, measure, record and present</p>		<p>destination. What has it to offer?</p> <p>Locational Knowledge UK</p> <p>Place Knowledge A region of the United Kingdom</p> <p>Human & Physical Types of settlement and land use Economic activity Natural resources</p> <p>Skills & Fieldwork Maps, atlases, globes and digital/computer mapping Eight points of compass Four and six figure grid references Map symbols and key and the use of Ordnance Survey maps</p>	
RE	Prayer & Worship Key Question:	Christmas (Incarnation)	Hindu Beliefs Key Question:	Easter (Salvation) Key Question:	Beliefs & Practices Key Question:	

	What is the best way for a Hindu to show commitment to God?	Key Question: Is the Christmas story true?	How can Brahman be everywhere and in everything?	Is Christianity still a strong religion 2000 years after Jesus was on Earth?	What is the best way for a Christian to show commitment to God?	
PSHE	Me & My Relationships Link to detailed scheme of work here	Rights & Responsibilities Link to detailed scheme of work here	Valuing Difference Link to detailed scheme of work here	Being My Best Link to detailed scheme of work here	Keeping Myself Safe Link to detailed scheme of work here	Growing & Changing Link to detailed scheme of work here
DT	Pulleys		Breadmaking		Cams	
MFL	<p>Revise numbers up to 70 and all 80s.</p> <p>Revise colours, seasons and months. Describe what you wear or don't wear. Express some opinions.</p> <p>Understand word order and agreements when using adjectives.</p> <p>Say what you or other people wear at different times of the year or for different occasions.</p> <p>Develop their ability to use "Porter" in the present tense.</p> <p>Christmas.</p>		<p>Ask where someone lives and respond. Ask somebody where they live. Say where you live.</p> <p>Name various types of accommodation and location.</p> <p>Name some rooms in the house. Say which floor a room is on.</p> <p>Understand word order and agreements when using adjectives.</p> <p>Understand and use "Il y a ...", "Il n'y a pas de/ d'..."</p> <p>Ask where something is and respond. Name a few pieces of furniture. Some simple prepositions of place.</p> <p>Understand word order and agreements when using adjectives.</p> <p>Develop their ability to use "Habiter" in the present tense.</p> <p>Easter.</p>		<p>Revise numbers up to 100.</p> <p>Understand and use "Quelle heure est-il?".</p> <p>Tell the time using the 12-hour clock. Learn some sports used with "Jouer".</p> <p>Revise some sports used with "Faire" and partitive articles (du, de la, de l').</p> <p>Revise some places in town and the translations of "to the" (<u>au/à la/ à l'</u>).</p> <p>Ask what people do at the weekend. Say what they do at the weekend. Express some opinions on their hobbies.</p> <p>Use simple key phrases to describe their daily routine.</p> <p>Continue to manipulate common regular _ER verbs in the present tense. Practise common irregular verbs (Aller, Faire) in the present tense.</p>	
Computing	Creating and	Using Data: Intro to	Using Data:		Digital Media:	Programming and

	<p>Publishing: Cyberbullying Posters (Pages)</p> <p>Using Technology: Touch Typing -ongoing throughout year</p> <p>Ongoing: Online Safety and touch typing</p>	<p>Spread Sheets Software: Excel</p> <p>Creating and Publishing: Reinforcement of paint and publishing tools</p> <p>Ongoing: Online Safety and touch typing</p>	<p>Spreadsheets continued</p> <p>Creating and Publishing: Graphical Modelling: Matisse</p> <p>(Includes Art work and multimedia presentation)</p> <p>Ongoing: Online Safety and touch typing</p>	<p>Programming and Control: SCRATCH – designing and making games</p> <p>Ongoing: Online Safety and touch typing</p>	<p>Digital Media: 3D Printer Research and designing a product, printing on 3D Printer</p> <p>Ongoing: Online Safety and touch typing</p>	<p>Control: Lego EV3 Software – Robots and Robotic Technology</p> <p>Ongoing: Online Safety and touch typing</p>
Music	<p>Part-singing techniques for choral performance</p> <p>Music for a purpose- listening and composing (Black History Month)</p> <p>Introduction to the ukulele</p> <p>Recorder work: individual improvisation skills (Blues); Recorder Karate programme</p> <p>World music exploration – listening to and playing cyclic patterns in African and Gamelan music</p> <p>Link to: Tudor music (Musical Contexts)</p>	<p>Part-singing techniques for choral performance</p> <p>Recorder Karate programme and ensemble performance</p> <p>Individual music history project</p> <p>Manipulating musical patterns and structures</p> <p>Link to: Ancient Egypt (Musical Contexts)</p>	<p>Developing aural and notation awareness through exercises</p> <p>Synthesised sounds and sound sources</p> <p>Ensemble percussion work – genres, world music, cyclic patterns</p> <p>Musical theatre skills</p> <p>Playing and singing musically from notation (solo and ensemble), folk songs</p> <p>Link to: Victorians (Musical Contexts)</p>			
Art	Talking Textiles	Landscapes and Seascapes	Objects and their Meaning			

	<p>What are textiles?</p> <p>How and why are textiles made? Weaving, knitting, crocheting etc. Look at and 'touch' real examples.</p> <p>How and why are textiles decorated? Beads, buttons, threads, precious stones, silk flowers, ceramics, metals etc. Look at and 'touch' real examples. Symbolic decorations/patterns - discuss.</p> <p>How have stories been represented through the centuries in textiles, eg <i>Bayeux Tapestry</i>. Look at different textiles from different times and cultures and discuss: colours, textures, patterns etc.</p>	<p>What are landscapes and seascapes? Discuss and explore. Look at the work of a wide variety of artists, past and present, to show the many different styles of land and seascape painting.</p> <p>Learn the basic skills required to draw and paint simple land and seascapes.</p> <p>Experiment with different materials, such as acrylic and watercolour paints, palette knives, brushes and scrapers, to discover the different ways of painting land and seascapes.</p> <p><i>Cross-curricular link with Geography</i> field trip provides an excellent opportunity for firsthand land and seascape sketching and photography.</p>	<p>Learn how to draw and paint three basic shapes used in still life drawing (spheres, cones and cylinders) showing light and shadow (tone).</p> <p>Discuss composition, relationship between objects, negative space, foreground and background.</p> <p>Learn how to arrange simple objects in an interesting way.</p> <p>Learn how to cross hatch to show light and shadow.</p> <p>Learn how to show light and shadow on objects using paint and collage.</p>
<p>Sport</p>	<p><u>Girls - Hockey</u>: travelling with ball, sending, receiving, shooting, tactical & positional play, 7-side games.</p> <p><u>Boys - Rugby</u>: apply speed and direction to passing and dodging to create space, outwit opponents and attack and defend as a team.</p> <p><u>All - Cross-Country</u>,</p> <p><u>Dance</u>: thematic work, expression, composition and performance.</p> <p><u>Gym</u>: climbing</p>	<p><u>Girls - Netball</u>: tactics, development of game.</p> <p><u>Boys-Hockey</u>: travelling with ball, sending, receiving, shooting, intro to 7-side games.</p> <p><u>Health Related Fitness</u>: speed, stamina and jumping skills.</p> <p><u>Swimming</u>: surface dive, linking tasks, personal survival, synchronised swimming.</p>	<p><u>Girls /Boys Cricket</u>: tactics, development of game.</p> <p><u>Athletics</u>: rounders ball throwing, long and high jump, speed work - 80m, distance work - 600m.</p> <p><u>Tennis</u>: smash, placement of shots, games.</p> <p><u>Swimming</u>: diving, tumble turns, timed and distance events, competitions.</p>

	<u>Swimming</u> : development of all 4 strokes.		
	Matches with other schools take place throughout the year, from Year 3 upwards.		