

Curriculum Overview- Year 5

Questions to link learning to British Values

LITERACY					
AUTUMN		SPRING		SUMMER	
1 st half	2 nd half	1 st half	2 nd half	1 st half	2 nd half
<p>Jungle Book/Just William CLASSIC FICTION Focus: Author's style Task: study <u>dialogue</u> punctuation, relative clauses and commas.</p>	<p>Poetry- POETIC LANGUAGE Focus: imagery techniques Task: read and write powerful poems about the sea. Revise word classes, noun phrases and adverbials.</p>	<p>*INSTRUCTIONS Focus: imperatives & adverbs Task: study the <u>grammar</u> of cohesion and create guides for futuristic travel.</p>	<p>Travel Texts/When Jessie Came Across the Sea BLOGS AND REPORTS Focus: travel writing Task: Revise <u>pronouns</u>, learn about relative clauses & punctuation, including uses of commas. Write own travel recount.</p>	<p>Kensuke's Kingdom/ The Eighteenth Emergency MODERN FICTION Focus: inspiration Task: develop <u>high level</u> language skills and cohesion within and between paragraphs, modal verbs/adverbs and commas.</p>	<p>Goth Girl FICTION Focus: relative clauses Task: explore <u>how</u> atmosphere, settings & characters are created. Study adverbs of possibility, commas, relative clauses, dialogue punctuation.</p>

MATHEMATICS

AUTUMN		SPRING		SUMMER	
1st half	2nd half	1st half	2nd half	1st half	2nd half
<p>Place Value Part 1 Read, write, order and compare numbers to at least to 5 digit numbers and determine the value of each digit. Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</p> <p>Algebra Part 1 Use simple formulae. Generate and describe linear number sequences. Express missing number problems algebraically.</p> <p>Addition and Subtraction Part 1 Add and subtract 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 estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.</p>	<p>Ratio and Proportion Part 1 Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</p> <p>Multiplication and Division Part 1 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. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. Recognise and use square numbers and the notation for squared (2). Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers.</p> <p>Fractions Part 1 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 two decimal places. Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $1 \frac{4}{5} \times 1 \frac{2}{3} = 1 \frac{8}{15}$]</p>	<p>Geometry Part 1 Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Recognise, describe and build simple 2-D and 3-D shapes, including making nets. Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.</p> <p>Algebra Part 2 Find pairs of numbers that satisfy an equation with two unknowns. Enumerate possibilities of combinations of two variables.</p>	<p>Addition and Subtraction Part 2 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p> <p>Multiplication, Division and Measures – Part 2 Multiply and divide numbers mentally drawing upon known facts. Recognise and use square numbers and the notation for squared (2) and cubed (3). Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. Convert between different units of metric measure. Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.</p> <p>Ratio and Proportion Part 2 Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.</p>	<p>Fractions – Part 2 Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. Round decimals with two decimal places to the nearest whole number and to one decimal place.</p> <p>Statistics Interpret and construct pie charts and line graphs and use these to solve problems. Calculate and interpret the mean as an average.</p> <p>Position and Direction Part 1 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.</p>	<p>Place Value Part 2 Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit. Use negative numbers in context, and calculate intervals across zero. Solve number and practical problems that involve all of the above.</p> <p>Geometry Part 2 Use the properties of rectangles to deduce related facts and find missing lengths and angles. Distinguish between regular and irregular polygons based on reasoning and equal sides and angles. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.</p> <p>Position and Direction Part 2 Complete, read and interpret information in tables, including timetables. Describe positions on the full coordinate grid (all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</p>



SCIENCE					
AUTUMN		SPRING		SUMMER	
1 st half	2 nd half	1 st half	2 nd half	1 st half	2 nd half
<p>Living Things & their Habitats</p> <p>Illustrating Lifecycles</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</p>	<p>Properties and changes of Materials</p> <p>Materials Consultants</p> <p>Compare and group together everyday materials on the basis of their properties, including their hardness, transparency, and conductivity (electrical and thermal)</p>	<p>Animals (including humans) (5/6AH)</p> <p>The Human Species</p> <p>Describe the changes as humans develop to old age. Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood.</p>	<p>Light</p> <p>Theatre Lighting Technicians</p> <p>Recognise that light appears to travel in straight lines</p> <p>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>Electricity</p> <p>Electric Art</p> <p>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>Compare and give reasons for variations in how components function</p>	<p>Revision Block</p> <p>Medical Manoeuvres</p> <p>Use your knowledge from across the year to embrace a series of medical challenges and see if you can help improve people's lives and the work of our health service.</p>



PSHE

AUTUMN	SPRING	SUMMER
<p>TEAM (Together Everyone Achieves More) (Relationships) Pupils learn:</p> <ul style="list-style-type: none">•disagree respectfully and communicate effectively•effects of unkind behaviour and explore strategies for helping situations by creating team support networks <p>Think Positive (Health and Wellbeing) Pupils learn:</p> <ul style="list-style-type: none">•to develop understanding about thoughts and emotions, both positive and negative.•Mental health and emotional wellbeing: Dealing with feelings; Healthy Minds•about links between our thoughts, feelings and emotions, making good choices and mindfulness	<p>Diverse Britain (Living in the Wider World) Pupils learn:</p> <ul style="list-style-type: none">•about how Britain represents a wide range of faiths and ethnicities•how to make a positive contribution to the community <p>Be Yourself (Relationships) Pupils learn:</p> <ul style="list-style-type: none">•develop a positive view of themselves• positive choices•how to avoid being led into tricky situations and how to recognise and respond to peer pressure	<p>It's my body (Health and Wellbeing) Pupils learn:</p> <ul style="list-style-type: none">•about substances which are harmful to our bodies•about the importance of sleep, exercise and hygiene•healthy habits that can benefit us all and how to seek support should they need to <p>Aiming Higher (Living in the Wider World) Pupils learn:</p> <ul style="list-style-type: none">•about learning styles, to understand how they learn best•about the type of attitude that helps us succeed, challenges people face and barriers to success,•strategies we can use to overcome obstacles



HISTORY		
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<p>Ancient Egypt</p> <p>Understand what was important to people during ancient Egyptian times</p> <p>Raise questions when confronted with an artefact in order to understand more about this ancient civilisation and select information that is useful in understanding the use of hieroglyphs as a form of communication.</p> <p>**What is Democracy? How did Pharaohs gain their position of power?*</p>	<p>Victorians</p> <p>Study the life of Queen Victoria - her life, family, portraits and homes. Learn about major inventions of the period as well as other aspects of the daily lives of Victoria's subjects. Workhouses are studied through fiction. Census data, maps and buildings provide the basis for developing an understanding of local history.</p>	<p>Dinosaurs and Fossils</p> <p>Become an enthusiastic, expert palaeontologist! Learn about the fascinating prehistoric creatures that once inhabited the Earth and study the main epochs of fossils. Investigate famous 18th-century palaeontologists Mary Anning and William Buckland. Explore fossil footprints and fossils humans, ice age creatures and their fossils. Study dinosaurs and their eggs, behaviour and extinction. Learn about Darwin and the amazing story of evolution.</p> <p>**What were British Values like during WW2? How did WW2 threaten or infringe on British Values? How did Hitler's values differ from British Values?*</p>
GEOGRAPHY		
AUTUMN	SPRING	SUMMER
<p>The Water Cycle and Rivers</p> <p>Children should be able to describe and understand key aspects of physical geography, including rivers and the water cycle.</p> <p>Build a systematic understanding of materials by exploring reversible changes, including evaporation and condensation.</p>	<p>Earth Matters- Volcanoes</p> <p>Describe and understand key aspects of volcanoes. Use maps, atlases, and globes to locate countries and describe features studied.</p> <p>**How do Natural Disasters impact on our lives? How do Natural Disasters impact on the lives of others?*</p>	<p>Comparing People and Places</p> <p>Understand geographical similarities and differences through the study of human and physical geography in a region of the United Kingdom. Describe and understand human geography including types of settlement and land use, economic activity including trade links, and distribution of natural resources including energy, food, minerals and water.</p> <p>**How do earthquakes, volcanoes impact upon communities and beliefs?*</p>



THEMED WEEKS/VISITS

**Black History Month
School Council Election**

**Anti-Bullying Week
Enrichment Day: Science
& Technology**

**Hazard Alley Safety
Centre Visit
Metro Bank Money
Zone**

World Book Day

Ramadan/Eid

**End of Year awards
Ceremony
Sports Day
End of Year Trip**



PE

AUTUMN		SPRING		SUMMER	
1 st half	2 nd half	1 st half	2 nd half	1 st half	2 nd half
<p>Tag Rugby</p> <ul style="list-style-type: none"> • To understand and start to demonstrate the important of creating space and movement • Demonstrate as an indivial or team how to regain possession • To combine basic tag rugby skills such as catching and quickly passing in one movement • To be able to select and implement appropriate skills in a game situation • To begin to play effectively when attacking and defending • To increase the power of passes so the ball can be moved quickly over greater distance 	<p>Football</p> <ul style="list-style-type: none"> • To be able to demonstrate different methods of dribbling, while being able to be in control and changing direction at speed • To understand and start to demonstrate the importance of creating space and movement • To be able to demonstrate a range of defending skills and understand how to mark an opponent and intercept a pass • Demonstrate, as an individual or team, how to regain possession. 	<p>Cricket</p> <ul style="list-style-type: none"> • To develop skills in batting and fielding • To choose the correct fielding techniques and organise fielders dependent on batting type • To be able to run between wickets and understand the basic scoring system • To develop a safe and effective over arm throw • To be able to bat with control 	<p>Athletics</p> <ul style="list-style-type: none"> • To be able to use correct running techniques and running speeds in a variety of short and long distance events • To develop and apply techniques for relay racing, in passing the baton legally • To be able to demonstrate effective time keeping and score taking • To develop footwork technique in a variety of events that including jumping and throwing <ul style="list-style-type: none"> • To be able to carry out throws with power and accuracy 	<p>Tennis</p> <ul style="list-style-type: none"> • To identify and apply techniques for hitting a tennis ball • To develop the techniques for ground strokes and volleys • To be able to demonstrate a successful backhand • To be able to use the scoring system effectively and apply specific rules in a game • To understand footwork required to move around court to return short and long returns • To demonstrate an overhead serve <p>Preparation for sports day will also be incorporated into this half term.</p>	<p>Netball</p> <ul style="list-style-type: none"> • To understand basic methods of passing • To develop basic coordination through passing and receiving • To develop basic shooting techniques with accuracy • To understand the basic rules of netball • To be able to apply learning in a games environment <p>Preparation for sports day will also be incorporated into this half term</p>



ART

Autumn

Ancient Egypt

Making clay faces, model in paper and paper mache to create quality art work that shows progression in their skills.

Explore the work of Leger, Hockney and a photograph taken by Man Ray.



Spring

The Seaside

Explore how to print, weave and make lanterns to create quality artwork that shows progression in skills, whilst exploring the work of 'The Seaside' artists Alfred Wallis and Hokusai.



Summer

North American Art



Discover how to draw the other half of a famous image, make collage landscapes, create body abstracts, make 'building block' houses, draw patterned skulls and be an artist's model.

Explore the work of American artists John Singer Sargent, Helen Frankenthaler, Jean-Michel Basquiat, Mary Cassatt, architect Frank Lloyd Wright and photographer Ansel Adams.

COMPUTING**AUTUMN****SPRING****SUMMER****Online Safety**

Explore the topics of spam emails, plagiarism and citing sources, secure passwords and fake images.

Controlling Devices - Flowol

Introduction to flowcharts and how they are used to program and control devices. Learn to build sequences of instructions, control multiple outputs and structure algorithms with decisions and inputs.

Strategic Searching Online

Discover about Strategic Searching Online, learning to use search engines with increasing efficiency. Learn how to refine searches using various techniques, such as using Boolean operators and using keywords.

Radio Station

Use software and digital devices for recording sound. Based around the theme of a Radio Station, it is designed to encourage a creative approach that includes interviewing, making adverts and using jingles.

3D Modelling: SketchUp

Develop drawing skills to create 3D models based on using the software SketchUp. Learn how to create simple and complex 3D models.

Using and Applying Skills

Select, use and combine a variety of software to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing.

