



Birch Hill Primary School – Curriculum Map – Year 5

Topic Focus	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	<p>To the Stars</p> <p>Science focus Earth rotation, day and night, movement of Earth relative to the Sun, and Moon relative to Earth, solar system.</p>	<p>The World is our Oyster</p> <p>Geography focus: maps, atlases, globes and internet searches. Focus on 2 areas, the Grampian region and the Rocky Mountains</p> <p>Poles Apart</p> <p>Science focus: friction, gravity, drag and resistance.</p>	<p>The Greeks</p> <p>History focus: achievements as well as making connections with sport, art, philosophy, architecture and theatre. Ideas of government and democracy.</p>	<p>Round and Round</p> <p>Science focus: life cycles appreciating variety of life and how it can be supported.</p>	<p>Fever, Fire and Fashion</p> <p>History: 17th Century London the Plague and the Great Fire. To describe examples of change and continuity and similarity and difference. Analytical skills explain causes and consequences. Research skills</p>	<p>Rites and Rituals</p> <p>History: Mayans Learn time period of Mayan civilization and distinctive eras within this. Learn about the architectural and the religious significance of buildings. Achievements of the Mayan mathematicians and astronomers, and the development of a sophisticated system of calendars.</p>
English	<p>Genre: Poetry Narrative - Space Travel Drama to develop ideas of space travel to help them write descriptive poetry and class stories.</p>	<p>Genre: Persuasive advertisement Formal Debate Take part in a formal debate – comparing mountains Newspaper Write a newspaper article linked to Stormbreaker</p>	<p>Genre: Narrative - Myths Explore and write Greek myths, using drama and role play. ‘Daedalus and Icarus’ ‘Pandora’s Box’ and others Greek gods and mythical creatures.</p>	<p>Genre: Leaflet/ Persuasive Advertising Information Texts.</p>	<p>Genre: Speaking and listening skills such as drama, role-play and improvisation techniques. Persuasive and discussion texts. Narrative writing.</p>	<p>Genre: Non-Fiction learn many different aspects of the Mayan civilization through non-fiction texts. Convert information from non-fiction texts into different formats. Letters Job advertisements.</p>

Guided Reading	Wonder	Stormbreaker	The Wolves in the Wall	Alice in Wonderland	Stormbreaker	Stormbreaker
Maths	<p><u>Place Value</u> Number to 10,000 Roman numerals to 1,000 Round to nearest 10, 100 and 1000 Number to 100,000 Compare and order number to 100,000 Round number within 100,000 Numbers to a million Counting in powers of 10 Compare and order numbers to a million Round numbers to a million Negative numbers</p> <p><u>Addition and subtraction</u> Add whole number with more than 4-digits (column method) Subtract whole numbers with more than 4 digits (column method) Round to estimate and approximate</p>	<p><u>Statistics</u> Read and interpret line graphs Draw line graphs Use line graphs to solve problems Read and interpret tables Two way tables Times tables</p> <p><u>Multiplication and division</u> Multiples Factors Common factors Prime numbers Square numbers Cube numbers Multiplying by 10, 100 and 1000 Dividing by 10, 100 and 1000 Multiples of 10, 100 and 100</p> <p><u>Geometry</u> Measure and calculate perimeter of composite rectilinear shapes. Calculate area of rectangles</p>	<p><u>Multiplication and division</u> Multiply 4-digits by 1-digit using a formal written method Multiply 2digits (area model) Multiply 2-digits by 2-digits using a formal written method Multiply 3-digits by 2-digits Multiply 4-digits by 2digits Divide 4 digits by 1-digit using a formal written method</p> <p><u>Fractions</u> Equivalent Fractions Improper fractions to mixed numbers Mixed numbers to improper fractions Number sequences Compare and order fractions less than 1 Compare and order fractions greater than 1 Add and subtract fractions Add fractions within 1</p>	<p><u>Fractions contd</u> As outlined in Spring 1</p> <p><u>Decimals and percentages</u> Decimals up to 2 decimal places Decimals as fractions (1) Decimals as fractions (2) Understand thousandths Thousandths as decimals Rounding decimals Order and compare decimals Understand percentages Percentages as fractions and decimals Equivalent fractions, decimals and percentages</p>	<p><u>Decimals</u> Adding decimals within 1 Subtracting decimals within 1 Complements to 1 Adding decimals – crossing the whole Adding decimals with the same number of decimal places Subtracting decimals with the same number of decimal places Adding decimals with a different number of decimal places Subtracting decimals with a different number of decimal places Adding and subtracting wholes and decimals Decimal sequences Multiplying decimals by 10, 100 and 1000 Dividing decimals by 10, 100 and 1000</p> <p><u>Geometry- Properties of Shape</u></p>	<p><u>Geometry – Position and Direction</u> Position in the first quadrant Reflection Refleciton with co-ordinates Translation Translation with co-ordinate</p> <p><u>Measurement</u> Convert Kilograms and kilometres Milligrams and millilitres Metric units Imperial units Understand and use equivalences between metric and common imperial units Converting units of time Timetables</p> <p><u>Volume</u> What is volume? Compare volume Estimate volume Estimate capacity</p>

	<p>Inverse operations (addition and subtraction) Multi-step addition and subtraction problems</p>	<p>Calculate area of compound shapes Calculate the area of irregular shapes</p>	<p>Add 3 or more fractions Add fractions Add mixed numbers Subtract fractions Subtract mixed numbers Subtract – breaking the whole Subtract two mixed numbers Multiply unit fractions by an integer Multiply non-unit fractions by an integer Multiply mixed numbers by integers Fraction of an amount Using fractions as operators</p>		<p>Measuring angles in degrees Measuring with a protractor (1) Measuring with a protractor (2) Drawing angles accurately Calculating angles on a straight line Calculating angles around a point Calculating lengths and angles in shapes Regular and irregular polygons Reasoning and about 3-D shapes</p>	
<p>Science</p>	<p><u>Earth and Space</u> Learning about the solar system, the importance of the Sun, the rotation and revolution of the Earth and moon. Throughout the year the children will be encouraged to develop their ability to think like scientists and improve their scientific processing skills: planning, predicting,</p>	<p><u>Forces</u> Examining and measuring forces, the actions of gravity, friction, air resistance and up-thrust and their practical application.</p>		<p>Science: Animal cycles. Plan and create for interactive display of animal lifecycles. Compare life cycles identifying similarities and differences. Six stages of human lifecycle: gestation, baby, childhood, adolescence, adulthood and old age.</p>		<p><u>Forces</u> Examining and measuring forces, the actions of gravity, friction, air resistance and up-thrust and their practical application.</p>

	observing, recording and concluding.			<p>Compare life cycles of animals with those of plants. Scientists Jane Goodall David Attenborough.</p> <p>Materials – Reversible Irreversible Changes a stand-alone science week topic - Investigate dissolving to form a solution and explore various ways of separating mixtures, depending upon size of particle and whether or not it has dissolved.</p>		
History and Geography		<p>Mountains Learn about the Grampians in winter and assess the dangers facing the climbers. Compare Grampians with Rockies for features and size. Learn about mountain formations. Compare Grampians mountains with the Rockies for features and size.</p>	<p>The Greeks Why is ancient Greece society so important to modern day people?</p>		<p>17th Century Plague and The Great Fire of London</p>	<p>Mayans and Aztecs How people past and present manage scarce resources such as fresh water, and about innovative and sustainable farming techniques used by ancient civilisations. Trading of precious resources in the ancient world and in our own.</p>
Art / D&T	Art and Design: Explore theme of stars through	Art and design:	Art and Design:	Art and Design:	Art and Design:	Art and Design: Mayan art and masks

	<p>Van Gogh's 'Starry Night' paintings, considering structure, colour, texture and moods. Painting and Collage.</p>	<p>Learn about Native Americans, particularly the Navajo designs and the symbols, colours and patterns they use in their rugs and Navajo weaver Winnie Henry. Design own rug using the mathematical skills needed to mirror their design twice.</p>	<p>Greek Pottery design and make their own clay pots which will be fired.</p>	<p>Sketching tessellation drawings using shapes or templates. Learn about patchwork patterns from last 300 yrs. Artist Kaffe Fassett, Escher creating metamorphosis sketches</p> <p>Design and Technology: Investigate, design and make a moving toy which incorporates a cam mechanism. 4 types of movement: rotary, reciprocating, linear and oscillating.</p>	<p>Rembrandt describe his work and techniques. Use chiaroscuro techniques effectively to create mood in their sketches.</p>	
PSHE / SRE / RE	<p>PHSE New Beginnings, incorporating Rights and Responsibilities R.E. Looking at world religions</p>	<p>PHSE Getting on and falling out R.E. Christianity – focus on Christmas story.</p>	<p>PHSE Say No to Bullying</p>	<p>PHSE - Good To Be Me. R.E. - Christianity The Easter Story,</p>	<p>PHSE - Going for Goals</p>	<p>PHSE - Relationships and change</p>

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Believe, Achieve Together

<p>Other</p>	<p>Music: create own space themed music, using real and electronic instruments and sounds. Listen to, discuss, explore and perform their music. Exploring instruments used in Holst's 'Planet Suite' Learning recorder.</p> <p>Computing: Develop programming to move a character in space and interact with other characters in an increasingly complex way. Developing secondary research skills – Learning about space/planets.</p>	<p>Computing: Explore two locations using Google Earth and collect information to compare and contrast. Set up a blog, using code to post and add a variety of multimedia.</p> <p>Explore two locations using Google Earth and collect information to compare and contrast. Compare Grampians mountains with the Rockies for features and size.</p> <p>Music: will work on music related to ice and fire as well as listening to a wider range. Compose and perform own pieces.</p> <p>French Introduction to key language</p>	<p>Music To perform Greek myths and legends. They will also be learning to read rhythm using theory.</p> <p>Computing: Use a variety of guided websites to explore The Greeks. Make French Menus.</p> <p>French: Focusing on some aspects of pronunciation and learning everyday conversational French.</p>	<p>Music: Continuing their rhythm theory.</p>	<p>French: Continue French study, focusing on some aspects of pronunciation and learning everyday conversational French.</p>	<p>Music: Traditional Mayan music and instruments associated with ceremonies and rituals, while making comparisons between Mayan and modern day music.</p> <p>Computing: Two locations using Google Earth and collect information to compare and contrast them. Investigate how to set up a blog, using code to post and add a variety of multimedia.</p>
<p>P.E. Festivals enrichment</p>	<p>Real P.E.</p>	<p>Real P.E.</p>	<p>Real P.E. Indoor Swimming</p>	<p>Real P.E. Indoor</p>	<p>Real P.E. Indoor</p>	<p>Real P.E. Indoor Cricket Athletics Meyan Games</p> <p>Sports' Day Cricket Festival</p>

TRIPS/ Enrichment	Planetarium Visit		Chertsey Museum – Greek Day			Mexicolore WW1 St Michael's Church Year 5/6 Play
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