

**Year 5
Summer Term 2017
Curriculum Overview**

Subject	Summer Term	
R.E.	<p><u>Unit I Easter</u> In this unit the children learn about the Church's Celebration of Easter through the Easter Vigil. They will learn about the Church's belief in eternal life through the Easter Story and the Story of the Ascension of Jesus into heaven. They will also study the story of the Raising of Lazarus from the dead.</p> <p><u>Unit J Pentecost</u> In this unit the children will gain greater insight into the Church's belief in the Holy Spirit. It will also explore the Christian belief in the Holy Trinity and prayer and devotion to the Holy Spirit.</p>	<p><u>Unit K The Work of the Apostles</u> In this unit the pupils will understand the significant role the Apostles played in proclaiming the Good News. Pupils will reflect on the work of the Apostles as building the foundations of the Church which continues to proclaim the Good News of Christ today.</p> <p><u>Unit L Marriage and Holy Orders.</u> In this unit the children will understand that Marriage and Holy Orders are important Sacraments of Commitment in the Church. It will also help them appreciate that everybody has some responsibility and part to play in the life of the Church.</p>
English	<ul style="list-style-type: none"> • The children will continue reading <i>The Hobbit</i>. They will study the language and structure of the text. They will study the meaning of different phrases and figures of speech. They will complete extended written pieces on the characters and plot development. • The children will study magazine and newspaper articles. They will look at features such as headlines, caption, eye-witness accounts, chronological order. This will relate directly to their work on <i>The Hobbit</i>, RE and History. • The children will create information texts about the <i>Ancient Greeks</i> and the local area. They will look at ways of presenting the text, bullet points and precis. • The children will create and write an extended story based on the idea of a quest. This will link to their work on <i>The Hobbit</i>. They will look at plot development over a period of chapters in a book and use of characterisation. 	<ul style="list-style-type: none"> • They will consolidate their understanding of clauses by studying relative clauses. • They will consolidate how to link ideas across paragraphs. • They will consolidate their understanding of sentence structure by practising different types of sentences. • They will consolidate their use and understanding of modal verbs. • They will consolidate their understanding of parenthesis. • They will consolidate their understanding of adverbials of time. • They will further the use of commas to clarify meaning. • The children will study spelling rules appertaining to the suffixes: ant, ancy, cious, tious, cial, tial.

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Mathematics	<p>This term the children will learn and understand the following concepts:</p> <ul style="list-style-type: none"> • Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit. • Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. • Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. • Round any number up to 1000000 to the nearest 10, 100, 1000, 10,000 and 100,000. • Solve number problems and practical problems that involve all of the above. • Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. • Add and subtract whole 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 rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. • Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre.) • Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. • Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. • Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and squared metres (m²) and estimate the area of irregular shapes. • Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]. • Use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling. • Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. • Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. • Draw given angles, and measure them in degrees (°) • Identify: angles at a point and one whole turn 	<ul style="list-style-type: none"> • 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 • Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. • Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. • Establish whether a number up to 100 is prime and recall prime numbers up to 19. • Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers. • Multiply and divide numbers mentally drawing upon known facts. • Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context. • Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. • Recognise and use square numbers and cube 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. • Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. • Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. • Compare and order fractions whose denominators are all multiples of the same number. • Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. • Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1 \frac{1}{5}$] • Add and subtract fractions with the same denominator and denominators that are multiples of the same number. • Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. • Read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$] • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. • Round decimals with two decimal places to the
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	<p>(total 360o) angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180o) other multiples of 90o</p> <ul style="list-style-type: none"> • Use the properties of rectangles to deduce related facts and find missing lengths and angles. • Distinguish between regular and irregular polygons based on reasoning about equal sides and angles • Solve problems involving converting between units of time. • Solve comparison, sum and difference problems using information presented in a line graph. • Complete, read and interpret information in tables, including timetables. 	<p>nearest whole number and to one decimal place.</p> <ul style="list-style-type: none"> • Read, write, order and compare numbers with up to three decimal places. • Solve problems involving number up to three decimal places. • Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal. • Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.
Science	<p>Properties and changes of materials The children will be taught to:</p> <ul style="list-style-type: none"> • Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets • Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution • Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating • Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic • Demonstrate that dissolving, mixing and changes of state are reversible changes • Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda. 	<p>Humans and other animals The children will be taught to:</p> <ul style="list-style-type: none"> • Describe the changes as humans develop to old age. • Draw a timeline to indicate stages in the growth and development of humans. They will learn about the changes experienced in puberty. • Pupils will work scientifically by researching the gestation periods of other animals and comparing them with humans; by finding out and recording the length and mass of a baby as it grows.
Computing	<p>Sounds The children will use the computer to create sounds for an animated piece that they have generated</p>	<p>Shape and Weather The children will use the computer to write simple programmes using Logo</p>

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Topic (History/ Geography)	<p style="text-align: center;">History</p> <p>The children will continue to study the Ancient Greeks. They will learn about life in Ancient Greece, religion, the legacy of the Ancient Greeks, their writing. This topic will be explored also in English, Art and Music</p> <p>The Local Area</p> <p>The children will study the development of Birmingham as an industrial city. They will look at it's development from an Anglo-Saxon settlement through to its role in the Civil War. They will consider how and why Birmingham became an industrial centre during the Industrial Revolution and examine the work of Matthew Boulton, James Watt and the Cadbury family.</p>	<p style="text-align: center;">Geography</p> <p>The children will continue to study the Water Cycle and rivers. They will study the local area. They will look at the economic activity of the immediate area and will focus on the Jewellery Quarter and the canals.</p>
D / T		<p><u>Food technology</u></p> <p>The children will look at food hygiene and a healthy diet. They will design and make a healthy snack.</p>
PSHE	<p>Dotcom Scheme</p> <p>The children will explore themes such as: the values of true friendship, courage and kindness as opposed to bullying, gangs and not respecting others.</p>	
Art	<p>The children will continue to study 3D Art. They will look at techniques used for manipulating clay. They will look at the frieze and sculpture work of the Ancient Greeks. They will look at watercolour techniques based on Gas Street Basin, Sarehole Mill and Moseley Bog.</p>	
PE	<p>The children will be going swimming this half term. They will be doing athletics with Mr. Noone</p>	
Music	<p>Taught by Ms J Davis</p>	
Spanish		