

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Topic (s)</b>  1A 1B/C	<b>ALGEBRA 1</b>  1 4 3 4	<b>NUMBER 1</b>  2 3 1 2	<b>NUMBER 2</b>  5 6 5 6	<b>NUMBER 3</b> <b>RATIO 1</b> 6 7 7	<b>GEOMETRY 1</b>  8 9 10 8 9 10	<b>GEOMETRY 2 and</b> <b>STATISTICS 1</b> 11 12 11 12
<b>Topic Objectives</b>	To introduce/develop an understanding of algebra focused around expressions and solving simple equations  Extend: inclusion of brackets when solving equations and writing equations to solve problems	To consolidate and develop core number skills: operations, number types and rounding  Extend: use of index notation and combined operations with negative numbers	To consolidate and develop work with fractions and decimals including conversions and calculations  Extend: mixed number calculations and rational numbers	To consolidate and develop work with percentages and ratio including conversions and calculations  Extend: FDP comparisons and calculations incorporating percentage change	To consolidate and develop work with 2D shape including angle knowledge, understanding of area and perimeter and symmetry.  Extend: angle knowledge through angle facts in parallel lines and congruence	To consolidate and develop work with 3D shape including nets, volume and surface area of cubes and cuboids. To recap and develop statistical representations, and construction/ interpretation of graphs and data collection techniques.  Extend: algebra in volume and SA calculations and comparing data and justifying decision making.
<b>Acquired Knowledge / Skills</b>	<ul style="list-style-type: none"> <li>Use like and unlike terms</li> <li>Addition and subtraction of linear expressions</li> <li>Writing algebraic expressions and apply formulae</li> </ul>	<ul style="list-style-type: none"> <li>Efficient methods to +, -, x and ÷ whole numbers</li> <li>Calculations with positive and negative</li> <li>Factors, multiples and primes</li> <li>HCF and LCM</li> </ul>	<ul style="list-style-type: none"> <li>Recap knowledge of place value</li> <li>Quantities as fractions</li> <li>Convert and order FDP</li> <li>Fractions of quantities</li> </ul>	<ul style="list-style-type: none"> <li>Place value</li> <li>Ratio, equivalent and fraction to ratio relationship</li> <li>Conversion FDP</li> <li>× and ÷ with powers of 10</li> <li>Introducing %</li> <li>Percentage of a quantity</li> </ul>	<ul style="list-style-type: none"> <li>Reflection and rotational symmetry</li> <li>Perimeter and Area - rectangles and triangles</li> <li>Types of angle</li> <li>Transformations and congruence</li> </ul>	<ul style="list-style-type: none"> <li>Calculate volume and Surface Area of cubes and cuboids</li> <li>Recap collection of data and grouping</li> <li>Draw Pictograms, bar charts, vertical line graphs</li> </ul>

	<ul style="list-style-type: none"> <li>Equations in one variable</li> <li>Using equations to solve problems</li> </ul>	<ul style="list-style-type: none"> <li>Rounding appropriately</li> <li>Estimating to solve problems</li> </ul>	<ul style="list-style-type: none"> <li><math>+</math>, <math>-</math>, <math>\div</math> and <math>\times</math> with decimals and fractions</li> <li>Rational numbers</li> </ul>	<ul style="list-style-type: none"> <li>Percentage change</li> <li>VAT</li> </ul>	<ul style="list-style-type: none"> <li>Angles at points, in triangles and on lines</li> <li>Parallel lines</li> </ul>	<ul style="list-style-type: none"> <li>Conduct a survey and construct a frequency table</li> <li>Present and interpret compound bar charts</li> </ul>
<b>Target Vocabulary</b>	Equation Expression Term Balance Solve Formulae	Sum Difference Product Quotient Indices Root Square Cube	Denominator Numerator Improper Mixed number Equivalent Place value	Ratio Percentage Share	Cube Cuboid Area Perimeter Parallel Line of symmetry Area Surface area Volume	Frequency Discrete Continuous Grouped data
<b>Assessment</b>	<b>Entry Test</b> Number algebra, geometry, ratio, statistics  Also refer to <b>CATS</b> and <b>SATS</b>	<b>DECEMBER ASSESSMENT 1</b> 4 levels of assessment Crossover questions between each assessment		<b>APRIL ASSESSMENT 2</b> 4 levels of assessment Crossover questions between each assessment		<b>JULY ASSESSMENT 3</b> 4 levels of assessment Crossover questions between each assessment