

**Curriculum Long Term Planning Overview**

**Key Stage 3**

**Subject Area: Maths**

**Academic Year: 2018-19**

Year	Study Modules	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
<b>Year 7 Sets 3 &amp; 4</b>	<b>Study Modules</b>	<p><b>Factors, Multiples, Primes, Powers and Roots</b></p> <p>Solve problems involving prime numbers</p> <p>Use HCF to solve problems</p> <p>Use LCM to solve problems</p> <p>Explore powers and roots</p> <p>Investigate number patterns</p> <p><b>Ordering Negative Numbers and Fractions</b></p> <p>Compare numbers</p> <p>Order numbers</p>	<p><b>Ordering Negative Numbers and Fractions</b></p> <p>Compare numbers</p> <p>Order numbers</p> <p><b>Multiplying, Dividing (Including Decimals) and BIDMAS</b></p> <p>Apply understanding of place value</p> <p>Explore written methods of calculation</p> <p>Calculate with decimals</p> <p>Know and apply the correct order of operations</p>	<p><b>Visualising and Constructing</b></p> <p>Interpret geometrical conventions and notation</p> <p>Apply geometrical conventions and notation</p> <p><b>Investigating Properties of Shapes</b></p> <p>Investigate the properties of 3D shapes</p> <p>Explore quadrilaterals</p> <p>Explore triangles</p> <p><b>Algebraic Manipulation</b></p> <p>Understand the vocabulary and notation of algebra</p> <p>Manipulate algebraic expressions</p> <p>Explore functions</p> <p>Evaluate algebraic statements</p>	<p><b>Algebraic Manipulation</b></p> <p>Understand the vocabulary and notation of algebra</p> <p>Manipulate algebraic expressions</p> <p>Explore functions</p> <p>Evaluate algebraic statements</p> <p><b>Algebraic Proficiency – Using Formulae</b></p> <p>Use simple formulae written in words</p> <p>Create simple formulae written in words</p> <p>Work with formulae written algebraically</p> <p><b>Exploring Fractions, Decimals and Percentages</b></p> <p>Understand and use top-heavy fractions</p> <p>Understand the meaning of 'percentage'</p> <p>Explore links between fractions and percentages</p>	<p><b>Exploring Fractions, Decimals and Percentages</b></p> <p>Understand and use top-heavy fractions</p> <p>Understand the meaning of 'percentage'</p> <p>Explore links between fractions and percentages</p> <p><b>Ratio and Proportional Reasoning</b></p> <p>Understand and use ratio notation</p> <p>Solve problems that involve dividing in a ratio</p> <p><b>Sequences</b></p> <p>Explore number sequences</p> <p>Explore sequences</p>	<p><b>Sequences</b></p> <p>Explore number sequences</p> <p>Explore sequences</p> <p><b>Measuring Space</b></p> <p>Measure accurately</p> <p>Convert between measures</p> <p>Solve problems involving measurement</p>
	<b>Assessment</b>	Open book end of topic assessment	Closed book end of term test	Open book end of topic assessment	Open book end of topic assessment	Open book end of topic assessment	Closed book end of term test

Year	Study Modules	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
<b>Year 8 Sets 3 &amp; 4</b>	<b>Study Modules</b>	<p><b>Investigating Angles</b></p> <p>Investigate angles</p> <p><b>Calculating Fractions, Decimals and Percentages</b></p> <p>Calculate with fractions</p> <p>Calculate with percentages</p>	<p><b>Solving Equations and Inequalities</b></p> <p>Solve missing number problems</p> <p>Understand and use algebra</p> <p><b>Calculating Space</b></p> <p>Develop knowledge of area</p> <p>Investigate surface area</p> <p>Explore volume</p> <p><b>Sequences II</b></p> <p>Explore sequences</p>	<p><b>Solving Equations and Inequalities II</b></p> <p>Explore ways of solving equations</p> <p>Solve two-step equations</p> <p>Solve three-step equations</p> <p><b>Checking, Approximating and Estimating</b></p> <p>Explore ways of approximating numbers</p> <p>Explore ways of checking answers</p>	<p><b>Transformations</b></p> <p>Explore lines on the coordinate grid</p> <p>Use transformations to move shapes</p> <p>Describe transformations</p> <p><b>Measuring Data</b></p> <p>Investigate averages</p> <p>Explore ways of summarising data</p> <p>Analyse and compare sets of data</p>	<p><b>Presentation of Data</b></p> <p>Explore types of data</p> <p>Construct and interpret graphs</p> <p>Select appropriate graphs and charts</p> <p><b>Numbers and The Number System</b></p> <p>Identify and use the prime factorisation of a number</p> <p>Understand and use standard form</p>	<p><b>Exploring Fractions, Decimals and Percentages</b></p> <p>Explore links between fractions, decimals and percentages</p> <p><b>Calculating</b></p> <p>Calculate with negative numbers</p> <p>Apply the correct order of operations</p>
	<b>Assessment</b>	Open book end of topic assessment	Closed book end of term test	Open book end of topic assessment	Open book end of topic assessment	Open book end of topic assessment	Closed book end of term test