

<b>Mathematics Year Seven</b>	<b>Curriculum Intent:</b> The Year 7 curriculum will consolidate and build on the key themes studied at KS2. Students will study all aspects of mathematics – Number, Algebra, Geometry and Data. Key concepts will be revisited through retrieval practice, and then developed at a level appropriate to the ability of each students. New learning will be carefully spaced and regular consolidation tasks will enable retention of key knowledge. Key skills will be developed with repeated practice and frequent problem solving activities requiring students to identify the skills needed to complete the task. Students will develop understanding of key concepts and will be given the opportunity to demonstrate this in a range of different contexts.																	
	<b>Term 1 &amp; 2</b>					<b>Term 3 &amp; 4</b>					<b>Term 5 &amp; 6</b>							
<b>Knowledge</b>	<b>Number 1:</b> <ul style="list-style-type: none"> <li>Ordering integers and decimals</li> <li>Working with negative numbers</li> <li>Four operations, including decimals</li> <li>Rounding to decimal places</li> <li>Working with fractions</li> </ul> <b>Algebra 1:</b> <ul style="list-style-type: none"> <li>Algebraic notation</li> <li>Collecting like terms</li> <li>Multiply &amp; divide expressions</li> <li>Substitution</li> <li>Expanding brackets</li> </ul> <b>Geometry &amp; Data 1:</b> <ul style="list-style-type: none"> <li>Properties of 2D and 3D shapes</li> <li>Perimeter of shapes</li> <li>Area of shapes (including circles)</li> <li>Volume of prisms</li> <li>Pythagoras introduction</li> </ul>					<b>Number 2:</b> <ul style="list-style-type: none"> <li>Properties of Number</li> <li>Products of Prime Numbers</li> <li>Percentage of an amount</li> <li>Percentage increase and decrease</li> <li>Writing numbers as percentages</li> </ul> <b>Algebra 2:</b> <ul style="list-style-type: none"> <li>Writing expressions</li> <li>Factorising</li> <li>Solve equations (two step and brackets)</li> <li>Solve equations (unknown on both sides)</li> <li>Forming and solving equations</li> </ul> <b>Geometry &amp; Data 2:</b> <ul style="list-style-type: none"> <li>Two-way tables</li> <li>Pie charts</li> <li>Scatter graphs</li> <li>Averages and range</li> <li>Mean and mode from a table</li> </ul>					<b>Number 3:</b> <ul style="list-style-type: none"> <li>Fraction, decimal &amp; percentage conversion</li> <li>Ordering FDP</li> <li>Ratio notation</li> <li>Sharing in a given ratio</li> <li>Proportion and unitary method</li> </ul> <b>Algebra 3:</b> <ul style="list-style-type: none"> <li>Working with sequences</li> <li>Finding nth term for linear sequences</li> <li>Inequality notation</li> <li>Solve inequalities (including negatives)</li> <li>Solve inequalities (unknown on both sides)</li> </ul> <b>Geometry &amp; Data 3:</b> <ul style="list-style-type: none"> <li>Angle terminology</li> <li>Scale drawings and constructions</li> <li>Angles in parallel lines</li> <li>Angles in polygons</li> <li>Bearings</li> </ul>							
<b>Understanding</b>	Completion of problem solving activities and challenges to develop application of knowledge and skills					Completion of problem solving activities and challenges to develop application of knowledge and skills					Completion of problem solving activities and challenges to develop application of knowledge and skills							
<b>Skills</b>	Number Place Value & Four Operations	Number FDP & Ratio	Measurement & Units	Geometry Angles & Shapes	Statistics	Problem Solving & Investigations	Number Place Value & Four Operations	Number FDP & Ratio	Measurement & Units	Geometry Angles & Shapes	Statistics	Problem Solving & Investigations	Number Place Value & Four Operations	Number FDP & Ratio	Measurement & Units	Geometry Angles & Shapes	Statistics	Problem Solving & Investigations
<b>Interleaving</b>	Regular consolidation of all prior teaching Reviewing skills for future learning Use of Mathsbox 10 and 20 question starters					Regular consolidation of all prior teaching Reviewing skills for future learning Use of Mathsbox 10 and 20 question starters					Regular consolidation of all prior teaching Reviewing skills for future learning Use of Mathsbox 10 and 20 question starters							
<b>Assessment</b>	'Low Stakes' KPI task after each section of work Formal written assessment at end of Term 2					'Low Stakes' KPI task after each section of work Formal written assessment at end of Term 4					'Low Stakes' KPI task after each section of work End of Year Assessment during Term 6							