

Subject: Maths Year 7	Term one		Term two		Term three	
Key Knowledge and understanding	Pythagoras	Algebra & Number	Number	Number	Geometry	Number & Probability
	<ul style="list-style-type: none"> <li>• Using a calculator</li> <li>• Indices</li> <li>• Formulae</li> <li>• Pythagoras</li> </ul>	<ul style="list-style-type: none"> <li>• Sequences</li> <li>• Algebraic Notation</li> <li>• Solving equations</li> <li>• Place Value</li> <li>• Fractions, Decimals &amp; Percentages</li> </ul>	<ul style="list-style-type: none"> <li>• Four operations</li> <li>• Fractions/Percentages of amounts</li> </ul>	<ul style="list-style-type: none"> <li>• Negative Numbers</li> <li>• Adding &amp; Subtracting Fractions</li> </ul>	<ul style="list-style-type: none"> <li>• Constructing, Measuring and using geometric notation</li> <li>• Developing geometric reasoning</li> </ul>	<ul style="list-style-type: none"> <li>• Number sense</li> <li>• Sets &amp; Probability</li> <li>• Prime numbers &amp; Proof</li> </ul>
Progression	Students learn how to use their calculator efficiently before applying this to indices and Pythagoras.	Students develop key algebraic and number skills to prepare them for more complex areas of mathematics	Students explore a variety of numerical techniques, to ensure a thorough and detailed understanding of different concepts.	Students explore a variety of numerical techniques, to ensure a thorough and detailed understanding of different concepts.	Students begin by grasping notation and basic use of equipment, before advancing to constructions and proofs	Students build on number skills from earlier topics, exploring varied techniques. Students apply understanding of probability to set notation, and develop understanding of prime numbers.
Challenge	Problem solving using indices and Pythagoras.	Sequences using algebra, Standard Form (including negative powers of 10)	Multiplying and dividing with decimals, multiplying and dividing algebraic expressions, solving problems with fractions greater than 1	Adding and Subtracting algebraic fractions, higher powers and roots	Angles in parallel lines, geometric proofs	Venn Diagrams for Highest Common Factor and Lowest Common Multiple.
Skills	Applying Pythagoras Theorem to find various lengths.	Correct use of algebraic shorthand, fluency with FDP conversions.	Addition, subtraction, multiplication and division in varied contexts.	Addition, subtraction, multiplication and division in varied contexts.	Using ruler, compass and protractor, calculating missing angles	Four operations, estimation, calculating probabilities, set notation, identifying types of number
Scope ie Local/Global						
Assessment	Short assessments at the end of each chapter		Short assessments at the end of each chapter		Short assessments at the end of each chapter, and a baseline assessment at the end of the year.	