



Department:	Mathematics	
Year 9 Course Summary:		
<p>In Year 9, students begin to study the foundational knowledge required for their GCSE Mathematics course. The curriculum covers key areas, including number, algebra, geometry, and data handling, with an emphasis on practical applications in topics such as Mechanics. Additionally, students will explore concepts beyond the standard syllabus, such as Matrices. Problem-solving skills are embedded throughout the course, and all students will participate in the Intermediate Maths Challenge.</p>		
<p>Linear Algebra Linear Graphs Simultaneous Equations Linear Inequalities</p> <p>Quadratic Algebra Expanding Brackets Factorising Quadratics Plotting Quadratics Quadratic Sequences</p> <p>Trigonometry Pythagoras' Theorem Trigonometry</p> <p>Powers, Roots, Decimals and Accuracy Squares, Cubes and Roots Standard Form Recurring Decimals Rounding to Significant Figures Estimation Upper and Lower Bounds</p>	<p>Compound Measures Speed and Density Real Life Graphs Pressure</p> <p>Engineering Maths Velocity/Time Graphs Distance/Time Graphs</p> <p>Vectors Translations Addition and Subtraction of Vectors Parallel Vectors</p>	<p>Probability Relative Frequency Tree Diagrams for Independent Events</p> <p>Grouped Data Minimising bias Frequency Polygons Histograms Mean of Grouped Data Cumulative Frequency</p> <p>Matrices Adding and Subtracting Matrices Multiplying Matrices Matrix Transformations</p>
IST Assessments		
<p>There will be assessments after each of the modules in bold and an assessment at the end of the year assessing all content covered in Year 9.</p>		