



Department:	Mathematics	
Year 11 Course Summary		
<p>In Year 11, students continue to gain the skills required for the GCSE Mathematics Course. They also look at ways to improve their exam technique and focus on how to apply their skills to unfamiliar problems. There is also the opportunity to study AQA Level 2 Further Mathematics, to challenge the most able students and to bridge the gap to A Level. Problem solving is integrated throughout the course and all students are entered into the Intermediate Maths Challenge.</p>		
<p>Sequences Arithmetic Sequences Geometric Sequences Quadratic Sequences Special Sequences</p> <p>Representing Data Scatter Diagrams Cumulative Frequency Box and Whisker Diagrams Time Series Histograms Capture, Recapture</p> <p>Number Ratio Percentages Fractions Prime Factors Algebraic ratio</p> <p>Algebra Algebraic techniques for problem solving</p>	<p>Vectors Magnitude of a Vector Addition of Vectors Solving Problems with Vectors Geometric Proof</p> <p>Direct and Inverse Proportion Direct Proportion Inverse Proportion Graphical Representations</p> <p>Rates of Change Growth and Decay Distance-Time Graphs Velocity-Time Graphs Gradient of a Curve Area Under a Curve</p> <p>Estimating and Accuracy Significant Figures Truncation Error Intervals Accuracy of Measurements Upper and Lower Bounds</p>	<p>Similar Shapes Length of Similar Shapes Area of Similar Shapes Volumes of Similar Shapes Composite Measures</p> <p>Probability Product Rule for Counting Relative Frequency Mutually Exclusive Events Independent Events Frequency Trees Tree Diagrams Conditional Probability Algebraic Probabilities</p> <p>Problem Solving Exam Techniques</p>