



Department:	Mathematics	
Year 8 Course Summary:		
<p>Straight Line Graphs Is that Point on a Line? Drawing Straight Line Finding the Gradient Investigating Straight Lines Equation of a Line Perpendicular Lines Solving Simultaneous Equations Graphically</p> <p>Powers and Equations Simplifying Expressions with Powers Laws of Indices Expanding Single Brackets Solving Equations Formulae Forming Equations 2D Inequalities</p> <p>Quadratics and Graphs Real Life Graphs Interpreting Graphs Graphing Quadratics Expanding Single Brackets Expanding Double Brackets Factorising Linear Expressions Factorising Quadratics Linear Sequences Quadratic Sequences Other Sequences Iteration</p>	<p>Angles and Constructions Angles in Polygons Regular Polygons Polygons & Parallel lines Constructions Constructing Triangles Loci</p> <p>Statistical Enquiry Calculating Statistics Calculating Quartiles Line Graphs for Time Series Scatter Graphs Finding the Line of Best Fit Collecting and Organising Data Analysing and Representing Data Interpreting Data Reporting and Evaluating</p> <p>Set Theory and Probability Basic Set Theory Venn Diagram for Probability Probability Events Won't Happen Mutually Exclusive Events Practical Probability Experiments Simulating Probability Events</p>	<p>Measures Circles Areas of Circles Arcs and Sectors Perimeter Areas of common shapes Volume Problem Solving involving Area and Volume Plans & Elevations Pythagoras' Theorem Calculating the Length of the Hypotenuse Calculating the Lengths of Other Sides</p> <p>Fractions and Proportion Simplifying and Comparing Fractions Arithmetic with Fractions Factorising Linear Expressions Review Factorising Quadratics Review Simplifying, Multiplying and Dividing Algebraic Fractions Converting Decimals to Fractions Direct Proportion</p> <p>Place Value and Calculations Measurement Conversion Powers of 10 Rounding Roots</p>
IST Assessments:		
There will be a test at the end of each of the modules indicated in bold.		