

Year 9	Autumn (1)	Autumn (2)	Spring (1)	Spring (2)	Summer (1)	Summer (2)
Topics	<u>Straight Line Graphs</u> <i>Using Table of Values</i> <i>Finding and generating equations of straight lines (including parallel and perpendicular)</i> <i>Interpreting real life graphs</i> <u>Forming & Solving Equations</u> <i>One and two step equations and inequalities</i> <i>Solving equations and inequalities with brackets and variables on both sides</i> <i>Rearranging formulae (one, two and multi-step)</i> <u>Testing Conjectures</u> <i>True or False, Always, Sometimes and Never True and Show That Problems</i> <i>Conjectures with number and algebra</i>	<u>Three Dimensional Shapes</u> <i>Prisms - drawing and interpreting nets and properties of shapes</i> <i>Plans and elevation</i> <i>Surface Area of 3D Shapes</i> <i>Volume of 3D Shapes - including cylinder and spheres</i> <u>Constructions and Congruency</u> <i>Drawing and measuring angles with scale drawings</i> <i>Locus of distance from a point, straight line and equidistant from two points</i> <i>Constructing perpendicular and angle bisectors</i> <i>Constructing triangles and exploring congruent triangles</i>	<u>Numbers</u> <i>Integers, real and rational numbers including surds</i> <i>Problem solving with integers and decimals</i> <i>Fractional arithmetic</i> <u>Using Percentages</u> <i>Percentage increase, decrease, percentage change and reverse percentages</i> <i>Solving percentage problems (calculator and non calculator methods)</i> <u>Maths and Money</u> <i>Solving problems with bills and bank statements</i> <i>Calculating with Simple and Compound Interest</i> <i>VAT, Wages and Taxes</i> <i>Exchange Rates and Unit Pricing</i>	<u>Deduction</u> <i>Angles in Parallel Lines and Chains of Angle Reasonings</i> <i>Angle Problems with Algebra</i> <i>Conjectures with angles and shapes</i> <u>Rotation and Translation</u> <i>Rotating Shapes on and around a point</i> <i>Translating Shapes by Vectors</i> <i>Finding the result of a series of transformations</i> <u>Pythagoras' Theorem</u> <i>Calculating the hypotenuse and missing sides of right angled triangles</i> <i>Proof of Pythagoras</i> <i>Using Pythagoras in 3D Shapes</i>	<u>Revision and Exam Week</u> <u>Enlargement and Similarity</u> <i>Enlarging by positive, fractional and negative scale factors</i> <i>Finding missing sides and angles in similar shapes</i> <u>Ratio and Proportion Problems</u> <i>Working with Direct and Inverse Proportion and their graphs</i> <i>Problem solving with best buys, ratio and algebra</i>	<u>Rates</u> <i>SDT with and without calculator</i> <i>Density, mass and volume</i> <i>Rates of Change (including graphs) and Compound Units</i> <u>Probability</u> <i>Single event probability and relative frequency</i> <i>Expected outcomes and independent events</i> <i>Probability representation through diagrams (tree)</i> <u>Algebraic Representation</u> <i>Draw and Interpret Quadratic Graphs</i> <i>Interpret Reciprocal Graphs</i> <i>Investigate Graphs of Simultaneous Equations</i> <i>Representing Inequalities on Graphs</i>
Assessments	<u>Topic Assessments</u> Straight Line Graphs Assessment Forming and Solving Equations Assessment	<u>Topic Assessment</u> Testing Conjectures Assessment <u>End of Term Test</u> Covering all topics up to this point	<u>Topic Assessments</u> Numbers Assessment Using Percentages Assessment	<u>Topic Assessments</u> Maths and Money Assessment Rotation Assessment	<u>Exam Week Assessment</u> Covering all topics up to this point <u>Topic Assessments</u> Enlargement and Similarity Assessment	<u>Topic Assessments</u> Probability Assessment Rates Assessment
Link with	1. AO1 Use and apply standard techniques 2. AO2 Reason, interpret and communicate mathematically 3. AO3 Solve problems within mathematics and in other contexts					