

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