Mathematics
Year 9 Curriculum Map

Unit One	Unit Two	Unit Three
Topic: Testing Conjectures **Key Learning:** Using known number and algebra facts to test conjectures **Assessment:** Topic-test and mid-year exam	**Topic: Forming and Solving Equations** **Key Learning:** Forming, rearranging and solving equations and inequalities **Assessment:** Topic-test and mid-year exam	**Topic: Straight Line Graphs** **Key Learning:** Understanding gradients and intercepts and finding the equations of given lines **Assessment:** Topic-test and mid-year exam

Unit Four	Unit Five	Unit Six
Topic: Working with Surds **Key Learning:** Using number skills to simplify surds and expressions containing surds **Assessment:** Topic-test and mid-year exam	**Topic: Using Percentages** **Key Learning:** Working with repeated and reverse percentages **Assessment:** Topic-test and mid-year exam	**Topic: Maths and Money** **Key Learning:** Applying percentage and proportion problems to the real world **Assessment:** Topic-test and mid-year exam

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Unit Seven	Unit Eight	Unit Nine
Topic: Three-Dimensional Shapes **Key Learning:** Surface area and volume of 3D shapes **Assessment:** Topic-test and end-of-year exam	**Topic: Deductions** **Key Learning:** Using angle facts to solve algebraic problems **Assessment:** Topic-test and end-of-year exam	**Topic: Enlargement and Similarity** **Key Learning:** Enlarging shapes by positive and negative scale factors, solving problems with similar triangles and introductions to trigonometric ratios. **Assessment:** Topic-test and end-of-year exam

Unit Ten	Unit Eleven	Unit Twelve
Topic: Pythagoras's Theorem **Key Learning:** Calculating missing sides of right-angled triangles using Pythagoras's theorem and exploring proofs **Assessment:** Topic-test and end-of-year exam	**Topic: Ratio and Proportion** **Key Learning:** Solving ratio, direct and indirect proportion problems **Assessment:** Topic-test and end-of-year exam	**Topic: Rates** **Key Learning:** Using ratio and proportion skills to solve problems involving compound measures such as speed and density. **Assessment:** Topic-test and end-of-year exam

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Unit Thirteen	Unit Fourteen	Unit Fifteen
Topic: Probability **Key Learning:** Working with relative frequency and expected outcomes, and dependent and independent events using tree diagrams. **Assessment:** Topic-test and end-of-year exam	**Topic: Algebraic Representation** **Key Learning:** Using graphs to solve simultaneous equations and plotting quadratic, cubic and reciprocal graphs. **Assessment:** Topic-test and end-of-year exam	**Topic: Rotation and Translation** **Key Learning:** Rotating and translating 2D shapes **Assessment:** Topic-test and end-of-year exam

Unit Sixteen	Unit Seventeen
Topic: Constructions and Congruency **Key Learning:** Constructing loci and bisectors to given points, lines or angles **Assessment:** Topic-test	**Topic: Simultaneous Equations** **Key Learning:** Solving simultaneous equations algebraically by elimination or substitution. **Assessment:** Topic-test