

SOW Summary

St. Cuthbert Mayne School
Mathematics Department



Year 7	Year 8	Year 9
<p>Y7 Cycle 1</p> <p>Pythagoras</p> <p>Fractions</p> <p>Area</p> <p>Mental percentages</p> <p>Y7 Cycle 2</p> <p>Percentages</p> <p>Perimeter and circumference</p> <p>Negative numbers</p> <p>Introduction to algebra</p> <p>Y7 Cycle 3</p> <p>Angles</p> <p>Ratio</p> <p>Algebra</p> <p>Circle area</p> <p>Sequences</p>	<p>Y8 Cycle 1</p> <p>Indices and standard form</p> <p>Factorising and expanding</p> <p>Sector area and arc length</p> <p>Pythagoras in multiple step problems</p> <p>Data (tables and groups)</p> <p>Y8 Cycle 2</p> <p>Straight lines</p> <p>Proportion</p> <p>Introducing quadratics</p> <p>Volume</p> <p>Y8 Cycle 3</p> <p>Volume of cylinder</p> <p>Basic probability</p> <p>Angles (polygons and bearings)</p> <p>Algebra</p> <p>Pie charts</p>	<p>Y9 Cycle 1</p> <p>Surds</p> <p>Probability trees & Tree Diagrams</p> <p>Quadratic Factorising & Sketching</p> <p>Rounding (Bounds higher sets)</p> <p>Volume Cuboids, Prisms, Cones etc</p> <p>Algebra and Simultaneous Equations</p> <p>Y9 Cycle 2</p> <p>Straight line graphs</p> <p>Linear inequalities (represent & solve)</p> <p>Pythagoras (Recap)</p> <p>Trigonometry: Lengths and Angles</p> <p>Group data</p> <p>Quadratic factorising & Quad formula</p> <p>Tax brackets and multipliers</p> <p>Y9 Cycle 3</p> <p>Algebra</p> <p>Similarity and congruence</p> <p>Pythagoras & Trigonometry (context),</p> <p>Standard Form</p> <p>Transformations</p> <p>Measures: SDT, MDV, FPA</p> <p>Venn Diagrams</p>
Year 10 H(6-9)	Year 10 I(4-6)	Year 10 F(1-5)
<p>Y10H Cycle 1</p> <p>Percentage and Multipliers</p> <p>Surds</p> <p>Data Handling & Measures (Bounds)</p> <p>Sequences (Linear and Quadratic)</p> <p>Simultaneous Equations (Linear)</p> <p>Constructions</p> <p>Y10H Cycle 2</p> <p>Recurring decimals to fractions</p> <p>Transformations</p> <p>Pythagoras & Trigonometry</p> <p>Quadratic formula</p> <p>Completing the square</p>	<p>Y10I Cycle 1</p> <p>Percentage and Multipliers</p> <p>Surds</p> <p>Data Handling & Measures (Units)</p> <p>Sequences (Linear and Quadratic)</p> <p>Simultaneous Equations (Linear)</p> <p>Constructions</p> <p>Y10I Cycle 2</p> <p>Algebra Basics</p> <p>Pythagoras & Trigonometry</p> <p>Congruency and similarity</p> <p>Quadratics (Factorise, roots, plotting)</p> <p>Quadratic formula</p>	<p>Y10F Cycle 1</p> <p>Percentage and Multipliers</p> <p>Standard form</p> <p>Data Handling and Measures (Units)</p> <p>Indices</p> <p>Constructions</p> <p>Y10F Cycle 2</p> <p>Algebra Basics</p> <p>Congruency and similarity</p> <p>Pythagoras & Trigonometry</p> <p>Perimeter and Area including S.A.</p>

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Quadratics (All sketching and solving) Congruency and similarity (sf) Y10H Cycle 3 Simultaneous Equations (Quadratic) Probability (Trees) 3d Pythagoras and Trigonometry Volume (and Volume & Density) Inequalities Venn Diagrams and Probability	Transformations and Enlargement Y10I Cycle 3 Simultaneous Equations (Quadratic) Straight line graphs Probability (Trees) Volume only Perimeter and area recap Venn Diagrams and Probability	Straight line graphs Circumference and Area Basic Transformation recap /staples Y10F Cycle 3 Simultaneous Equations (Linear) Properties of polygons Inequalities Real Life Graphs (linear and non) Venn Diagrams and Probability
Year 11 H(6-9)	Year 11 I(4-6)	Year 11 F(1-5)
Y11H Cycle 1 Quadratics, rearranging formula Proofs Trigonometry 3D and exact values Growth and Decay Sketching all graphs Direct and inverse Proportion Y11H Cycle 2 Circle Geometry Vectors Transformation of graphs $f(x)$ Trigonometry (Sine and Cosine rule) Iterations Graph inequalities Circle theorems Y11H Cycle 3 Gradients and rate of change Algebraic Fractions Exam Technique	Y11I Cycle 1 Quadratics, rearranging formula Double and triple brackets Trigonometry 3D; extend & Pythagoras Growth and Decay Sketching all graphs Direct and inverse Proportion Y11I Cycle 2 Vectors Trig equations / sketch trig graphs Transformation of graphs $f(x)**$ Inequalities Quadratic formula/ complete the square Trigonometry (Sine and Cosine rule) Iterations Y11H Cycle 3 Gradients and rate of change Algebraic Fractions Circle theorems Exam Technique	Y11F Cycle 1 Volume Double and triple brackets Rearrange formula Inequalities, solving & representing Algebra and linear graphs Sketching all graphs Y11F Cycle 2 Direct and inverse proportion Trigonometry; extend & Pythagoras Data Handling (group data) Solving Quadratic Equations Quadratic formula Quadratic graphs Growth and Decay Y11H Cycle 3 Vectors Key formula (application and use) Exam Technique