

Mathematics KS4

Foundation GCSE (grades 1-5)

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Year 10	<p>Integers and place value</p> <p>Algebra: the basics</p> <p>Expressions and substitution into formulae</p> <p>Fractions, decimals and percentages</p> <p>Percentages</p> <p>Equations and inequalities</p> <p>Sequences</p> <p>Properties of shapes, parallel lines and angle facts</p>	<p>Interior and exterior angles of polygons</p> <p>Statistics, sampling and averages</p> <p>Perimeter, area and volume</p> <p>Real-life graphs</p> <p>Straight-line graphs</p> <p>Transformations</p>	<p>Transformations (cont.)</p> <p>Ratio</p> <p>Proportion</p> <p>Right-angled triangles: Pythagoras and trigonometry</p> <p>Probability</p>
Year 11	<p>Multiplicative reasoning</p> <p>Plans and elevations</p> <p>Constructions, loci and bearings</p> <p>Expanding and factorising quadratic expressions</p> <p>Graphs of quadratic equations</p> <p>Circles, cylinders, cones and spheres</p>	<p>Fractions and reciprocals</p> <p>Indices and standard form</p> <p>Similarity and congruence in 2D</p> <p>Vectors</p> <p>Rearranging equations</p> <p>Graphs of cubic and reciprocal functions</p> <p>Simultaneous equations</p>	<p>Problem solving</p> <p>Revision and summer exams</p>

Higher GCSE (grades 4-9)

	AUTUMN TERM	SPRING TERM	SUMMER TERM
Year 10	<p>Forming, rearranging and solving equations</p> <p>Sequences</p> <p>Fractions and percentages</p> <p>Ratio and proportion</p> <p>Polygons, angles and parallel lines</p> <p>Pythagoras' Theorem and trigonometry</p>	<p>Graphs: the basics and real-life graphs</p> <p>Linear graphs and coordinate geometry</p> <p>Quadratic, cubic and other graphs</p> <p>Perimeter, area and circles</p> <p>3D shapes and volumes</p> <p>Accuracy and bounds</p> <p>Transformations</p>	<p>Constructions, loci and bearings</p> <p>Solving quadratic and simultaneous equations</p> <p>Inequalities</p> <p>Probability</p> <p>Multiplicative reasoning</p>
Year 11	<p>Multiplicative reasoning (cont'd)</p> <p>Similarity and congruence in 2D and 3D</p> <p>Graphs of trigonometric functions</p> <p>Further trigonometry</p> <p>Collecting data</p> <p>Cumulative frequency, box plots and histograms</p> <p>Quadratics, expanding more than two brackets</p> <p>Graphs of quadratics and cubes</p>	<p>Circle theorems</p> <p>Circle geometry</p> <p>Changing the subject of formulae (more complex)</p> <p>Algebraic fractions, rationalising surds, proof</p> <p>Vectors and geometric proof</p> <p>Reciprocal and exponential graphs. Gradient and area</p> <p>Direct and inverse proportion</p>	<p>Problem solving</p> <p>Revision and summer exams</p>

