

Curriculum Overview | Mathematics



What will my child learn in

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 5
Year 7	<u>Algebra:</u> Sequences Algebraic Notation Equity and Equivalence	<u>Number:</u> Place value and Ordering <u>Ratio and Proportion:</u> Fractions, decimals and percentages equivalence.	<u>Number:</u> Addition and Subtraction Multiplication and Division <u>Ratio and Proportion:</u> Fractions and % of an amount Revision, Assessment point and DIT	<u>Number:</u> Directed Number <u>Ratio and Proportion:</u> Addition and Subtraction of Fractions. <u>Geometry:</u> Constructions	<u>Geometry:</u> Constructing – Measuring and using geometric notation. <u>Number:</u> Developing Number	Revision, Assessment point and DIT <u>Probability:</u> Sets and probability. <u>Number:</u> Prime numbers and proof.
Year 8	<u>Ratio & Proportion:</u> Ratio and scale Multiplicative change Multiplying and dividing fractions	<u>Geometry:</u> Working in the cartesian plane <u>Statistics:</u> Representing data <u>Probability:</u> Introduction Revision, Assessment point and DIT	<u>Probability:</u> Theoretical and experimental probability <u>Algebra:</u> Brackets, equations and inequalities.	<u>Algebra:</u> Sequences <u>Number:</u> Indices. <u>Ratio & Proportion:</u> Fractions and Percentages	<u>Number:</u> Standard Form Number sense <u>Geometry:</u> Angles in Parallel lines and polygons. Area of Trapezia and Circles	Revision, Assessment point and DIT <u>Geometry:</u> Symmetry and reflection. <u>Statistics:</u> Measures of Location (Mean, median, quartiles)
Year 9	<u>Number:</u> Place value, calculations, checking and rounding. Indices, powers and roots. Factors, multiples and primes. <i>Standard form(H).</i> <i>Surds.</i> <u>Algebra:</u> Algebraic notation. Expressions and substitution.	<u>Statistics:</u> Representing and interpreting data, tables, charts and scatter graphs. Averages and range. <u>Number:</u> Fractions, decimals and percentages. <i>Ratio and proportion (H).</i> Revision, Assessment point and DIT	<u>Ratio and Proportion:</u> Fractions, decimals and percentages. <i>Ratio and proportion.</i> <u>Algebra:</u> Solving Equations Sequences (F) <u>Geometry</u> Properties of shapes, parallel and perpendicular lines and angle facts.	<u>Geometry</u> Properties of shapes, parallel and perpendicular lines and angle facts. Interior and exterior angles in polygons. <u>Geometry:</u> <i>Pythagoras Theorem and Trigonometry (H).</i> <u>Algebra:</u>	<u>Statistics:</u> Sampling, averages and range (F). <u>Geometry:</u> Perimeter, Area and Volume. <u>Algebra:</u> Graphs – the basics and real life graphs(F). Linear Graphs, <i>Coordinate geometry(H)</i>	<u>Algebra:</u> Linear graphs (F) <u>Number:</u> <i>Accuracy and bounds (H)</i>

	Rearranging formulae(H). Solving Equations. Sequences.		Interior and exterior angles in polygons.	Graphs – the basics and real life graphs(H). Trial and Improvement. Revision, Assessment point and DIT	Quadratic and Cubic Graphs (H).	
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What will my child learn in

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 5
Year 10 (Higher)	<p><u>Geometry:</u> Pythagoras and Trigonometry</p> <p><u>Algebra:</u> Real Life Graphs Linear Graphs Quadratic Graphs</p>	<p><u>Algebra:</u> Quadratic Graphs Non-Linear Graphs</p> <p><u>Geometry:</u> Perimeter, Area and Circles. 3-D forms -Volume, cuboids, spheres and cones.</p> <p>Revision, Assessment point and DIT</p> <p><u>Number:</u> Accuracy and bounds</p>	<p><u>Geometry:</u> Transformations (Reflection, Rotation, Enlargement and Translation) Constructions and Bearings</p> <p><u>Algebra:</u> Solving quadratics Simultaneous equations</p>	<p><u>Algebra:</u> Solving quadratics Simultaneous equations Inequalities</p> <p><u>Probability:</u> Theoretical Probability – Multiple outcomes</p> <p>Revision, Assessment point and DIT</p>	<p><u>Ratio and Proportion:</u> Multiplicative Reasoning</p> <p><u>Geometry:</u> Similarity and congruence</p> <p><u>Geometry/Algebra:</u> Graphs of Trigonometric functions</p>	<p><u>Geometry:</u> Further Trigonometry: Non right angled trigonometry</p> <p>Revision, Assessment point and DIT</p>
Year 10 (Foundation)	<p><u>Algebra:</u> Sequences</p> <p><u>Geometry</u> Properties of shapes, parallel and perpendicular lines and angle facts. Interior and exterior angles in polygons.</p> <p><u>Statistics:</u> Sampling, averages and range.</p>	<p><u>Geometry:</u> Perimeter, Area and Volume.</p> <p><u>Algebra:</u> Graphs – the basics and real-life graphs</p> <p>Revision, Assessment point and DIT</p>	<p><u>Algebra:</u> Linear Graphs.</p> <p><u>Geometry:</u> Transformations (Reflection, Rotation, Enlargement and Translation)</p> <p><u>Ratio and Proportion:</u> Ratio problems</p>	<p><u>Ratio and Proportion:</u> Proportion Direct and inverse proportion</p> <p><u>Geometry:</u> Pythagoras and Trigonometry</p> <p><u>Probability:</u> Theoretical Probability – Multiple outcomes</p> <p>Revision, Assessment point and DIT</p>	<p><u>Probability:</u> Theoretical Probability – Multiple outcomes</p> <p><u>Ratio and Proportion:</u> Multiplicative Reasoning</p> <p><u>Geometry:</u> Plans and elevations Constructions</p>	<p><u>Geometry:</u> Loci Bearings</p> <p>Revision, Assessment point and DIT</p> <p><u>Algebra:</u> Quadratic equations – expanding and factorising. Quadratic graphs</p>

<p>Year 11 (Higher)</p>	<p><u>Ratio and Proportion:</u> Multiplicative Reasoning</p> <p><u>Geometry:</u> Similarity and congruence Graphs of Trigonometric functions Further Trigonometry: Non right-angled trigonometry</p>	<p><u>Statistics:</u> Collecting data Cumulative Frequency Box plots Histograms</p> <p>Revision, Mock exams and DIT</p> <p><u>Algebra:</u> Quadratics Expanding more than two brackets Sketching Graphs (quadratic, cubic, circles)</p> <p><u>Geometry:</u> Circle Theorems</p>	<p><u>Geometry:</u> Circle Geometry</p> <p><u>Algebra:</u> Changing the subject of formulae Algebraic fractions Rationalising surds Proof</p> <p><u>Geometry:</u> Vectors and geometric proof</p>	<p><u>Ratio and Proportion:</u> Direct and Inverse proportion</p> <p>Revision, Mock exams and DIT</p> <p><u>Algebra:</u> Reciprocal and Exponential Graphs. Gradient and area under a graph</p> <p>Revision and past paper practice.</p>	<p>Revision and past paper practice.</p>	
<p>Year 11 (Foundation)</p>	<p><u>Geometry:</u> Pythagoras and Trigonometry</p> <p><u>Probability:</u> Theoretical Probability – Multiple outcomes</p> <p><u>Ratio and Proportion:</u> Multiplicative Reasoning</p>	<p><u>Geometry:</u> Plans and elevations Constructions Loci Bearings</p> <p>Revision, Assessment point and DIT</p> <p><u>Algebra:</u> Quadratic equations – expanding and factorising. Quadratic graphs</p>	<p><u>Geometry:</u> Circles, cylinders, cones and spheres</p> <p><u>Ratio and Proportion:</u> Fractions and reciprocals</p> <p><u>Number:</u> Indices and standard form</p> <p><u>Geometry:</u> Similarity and congruence</p>	<p><u>Geometry:</u> Vectors</p> <p>Revision, Mock exams and DIT</p> <p><u>Algebra:</u> Rearranging equations Graphs of cubic and reciprocal functions Simultaneous equations</p> <p>Revision and past paper practice.</p>	<p>Revision and past paper practice.</p>	