

# Curriculum Overview |



## What will my child learn in Maths

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
<b>Year 7</b>	<b>Fractional thinking</b> Probability Factors, multiples, primes Fractions (+/-)	<b>Algebraic thinking</b> Directed number Manipulating algebra Exploring sequences	<b>Proportional reasoning</b> Fractions ( $\frac{\quad}{\quad}$ ) Proportion Ratio Scale diagrams	<b>Proportional reasoning</b> Fractions ( $\frac{\quad}{\quad}$ ) Proportion Ratio Scale diagrams	<b>Using shape</b> Coordinates & introducing straight line graphs Properties of shape Notation/labelling conventions Perimeter & area Circles – area & circumference	<b>Using shape</b> Coordinates & introducing straight line graphs Properties of shape Notation/labelling conventions Perimeter & area Circles – area & circumference
<b>Year 8</b>	<b>Delving into data</b> Angle Interpreting & comparing Averages Scatter graphs	<b>Formalising algebra</b> Solve equations Sequences (nth term) Graphs of linear functions, $y=mx+c$	<b>Proportional relationships</b> Percentages Convert between fractions, decimals & percentages Ratio – with linear functions & fractions Units of measure	<b>Proportional relationships</b> Percentages Convert between fractions, decimals & percentages Ratio – with linear functions & fractions Units of measure	<b>Geometrical reasoning</b> 3D shape Volume Angle, constructing triangles Pythagoras	<b>Geometrical reasoning</b> 3D shape Volume Angle, constructing triangles Pythagoras
<b>Year 9</b>	<b>Working with number</b> Rounding, estimation Error Intervals Standard form Indices <b>Working algebraically</b> Expanding & factorising Identities	<b>Numerical reasoning</b> Percentages Money <b>Probability</b> Finding probabilities Frequency trees Probability tree diagrams	<b>Working with data</b> Statistical measures Averages from freq tables Boxplots <b>Reasoning geometrically</b> Angles in parallel lines Bearings Constructions & loci	<b>Solving</b> Solving equations Solving inequalities Simultaneous equations <b>Sequences</b> Linear nth term Fibonacci, quad & geom Quadratic nth term	<b>Graphing</b> Straight line graphs Graphical solutions, parallel lines Sketching graphs <b>Rearranging</b> Rearranging formulae Units, compound measures	<b>Scaling</b> Direct/inverse proportion Similarity Scale diagrams & maps <b>Visualising</b> Transformations Plans & elevations Surface area

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<b>Year 10</b>	<p><b>Properties of number</b> Factors, multiples, primes HCF/LCM Fractional &amp; -ve indices Surds Pythagoras with surds Rationalising the denominator</p>	<p><b>Similarity</b> Similar shapes Enlargement Trigonometry <b>FDP</b> Frac/percent as operators Percentage change, compound interest Reverse percentages Recurring dec &amp; frac</p>	<p><b>Combinations &amp; prob</b> Systematic listing Sample spaces Venn diagrams Product rule for counting Probability trees (non-r) <b>Geometry</b> Circles Area, volume Volume &amp; surface area</p>	<p><b>Algebra &amp; Graphing</b> Straight line graphs – algebra review Function notation Solving quadratics <i>inc completing the square</i> Real life graphs Sketching quadratics Perpendicular lines Equation of circle, tangent</p>	<p><b>Algebraic fractions</b> Fractions review Algebraic fractions  <b>Describing position</b> Transformations Invariance Vectors, ops</p>	<p><b>Displaying data</b> Pie charts, all bar charts Frequency tables Cumulative frequency Histograms <b>Polygons</b> Angles review, polygons</p>
<b>Year 11</b>	<p><b>H: Algebra: Solving</b> Further sim equations Iteration <b>Geometry: angle</b> Circle theorems 3D trig Non right angled trig <b>F: Algebra: Solving</b> Simplifying, solving &amp; rearranging Solving quadratics <b>Geometry</b> Congruence Trig, exact values Vectors Arcs &amp; sectors</p>	<p><b>H: Algebra: Functions</b> Composite, inverse functions Complex rearranging <b>Geometry: L, A &amp; V</b> Congruence Similarity of 3D shapes Bounds – limits of accuracy <b>F: Algebra: Graphing</b> Ratio, equations &amp; graphs Plotting graphs Sketching inc cubic, reciprocal Growth &amp; decay Inequalities – solve &amp; shade</p>	<p><b>H: Algebra: Graphs</b> Growth &amp; decay (exponential graphs) Rates of change Area under curve Graphs of trig functions <i>Transformations of graphs</i> <b>Proof</b> Geometric proof Proof using vectors Proof using algebra <b>F: Class level responsive planning</b> <b>Including revision with AO2/3: Multiplicative</b> Best buys, bank accounts, ratio <b>Geometric</b> Shape problems – add/split Multi-step problems</p>	<p>Class level planning responsive to mock analysis, overseen and supported by maths subject leaders  <b>Including revision with AO2/3: Numerical</b> If something changes what will happen <b>Multiplicative</b> Ratio with every other topic <b>Geometric</b> Reasoning with angle <b>Algebraic</b> Evaluation of others work</p>	<p><b>Final exams</b> Class level planning responsive to mock analysis, overseen and supported by maths subject leaders</p>	<p><b>Final exams</b></p>