



Curriculum Overview | Mathematics

What will my child learn in Maths?

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 7	Fractional thinking <ul style="list-style-type: none"> ○ Probability ○ Factors, multiples, primes ○ Fractions (+/-) 	Algebraic thinking <ul style="list-style-type: none"> ○ Directed number ○ Manipulating algebra ○ Exploring sequences 	Proportional reasoning <ul style="list-style-type: none"> ○ Fractions (\times/\div) ○ Proportion ○ Ratio ○ Scale diagrams 		Using shape <ul style="list-style-type: none"> ○ Coordinates & introducing straight line graphs ○ Properties of shape ○ Notation/labelling conventions ○ Perimeter & area ○ Circles – area & circumference 	Fractional thinking <ul style="list-style-type: none"> ○ Probability ○ Factors, multiples, primes ○ Fractions (+/-)
Year 8	Delving into data <ul style="list-style-type: none"> ○ Angle ○ Interpreting & comparing ○ Averages ○ Scatter graphs 	Formalising algebra <ul style="list-style-type: none"> ○ Solve equations ○ Sequences (nth term) ○ Graphs of linear functions, $y=mx+c$ 	Proportional relationships <ul style="list-style-type: none"> ○ Percentages ○ Convert between fractions, decimals & percentages ○ Ratio – with linear functions & fractions ○ Units of measure 		Geometrical reasoning <ul style="list-style-type: none"> ○ 3D shape ○ Volume ○ Angle, constructing triangles ○ Pythagoras 	Delving into data <ul style="list-style-type: none"> ○ Angle ○ Interpreting & comparing ○ Averages ○ Scatter graphs
Year 9	Working with number <ul style="list-style-type: none"> ○ Rounding, estimation ○ Error Intervals ○ Standard form ○ Indices ○ Working algebraically ○ Expanding & factorising ○ Identities 	Numerical reasoning <ul style="list-style-type: none"> ○ Percentages ○ Money ○ Probability ○ Finding probabilities ○ Frequency trees ○ Probability tree diagrams 	Working with data <ul style="list-style-type: none"> ○ Statistical measures ○ Averages from frequency tables ○ Boxplots ○ Reasoning geometrically ○ Angles in parallel lines ○ Bearings ○ Constructions & loci 	Solving <ul style="list-style-type: none"> ○ Solving equations ○ Solving inequalities ○ Simultaneous equations ○ Sequences ○ Linear nth term ○ Fibonacci, quad & geometry ○ Quadratic nth term 	Graphing <ul style="list-style-type: none"> ○ Straight line graphs ○ Graphical solutions, parallel lines ○ Sketching graphs ○ Rearranging ○ Rearranging formulae ○ Units, compound measures 	Scaling <ul style="list-style-type: none"> ○ Direct/inverse proportion ○ Similarity ○ Scale diagrams & maps ○ Visualising ○ Transformations ○ Plans & elevations ○ Surface area





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Year 10	Properties of number <ul style="list-style-type: none"> Factors, multiples, primes HCF/LCM Bounds Fractional & -ve indices Surds Pythagoras with surds Rationalising the denominator 	Similarity <ul style="list-style-type: none"> Congruent, similar shapes Enlargement Trigonometry FDP Frac/percent op & change Reverse percentages Growth & decay Recurring dec & frac 	Combinations & prob <ul style="list-style-type: none"> Systematic listing Sample spaces Venn diagrams Product rule for counting Probability trees (non-r) Geometry Circles Area, volume Volume/surface area 	Algebra & Graphing <ul style="list-style-type: none"> Straight line graphs – algebra review Function notation Solving quadratics Real life graphs Sketching quadratics Perpendicular lines Equation of circle, tangent 	Algebraic fractions <ul style="list-style-type: none"> Fractions review Algebraic fractions Complex rearranging Visualising Transformations Invariance Vectors, ops Proof using vectors 	Pie charts, all bar charts <ul style="list-style-type: none"> Frequency tables Cumulative frequency Histograms Polygons Angles review, polygons Circle theorems Formal mocks
Year 11	H Algebra: Solving <ul style="list-style-type: none"> Completing the square Iteration Further sim equations Geometry 3D trig Non right angled 	H Algebra: Graphing <ul style="list-style-type: none"> Composite, inverse functions Transformations of graphs Rates of change Area under curve Graphs of trig functions 	Revision through reasoning and problem-solving: <ul style="list-style-type: none"> Multiplicative Best buys, bank accounts, ratio with everything Geometric Reasoning with angle Shape problems – add/split Multi-step problems Algebraic Evaluation of others work Proof 	Formal mocks Exam Revision	Final exams Class level planning responsive to mock analysis, overseen and supported by maths subject leaders	Final exams
	F Algebra: Solving <ul style="list-style-type: none"> Simplifying, solving & rearranging, identities Solving quadratics Geometry Area & volume review Trig, exact values Vectors Arcs & sectors 	F Algebra: Graphing <ul style="list-style-type: none"> Ratio, equations & graphs Plotting graphs Sketching inc cubic, reciprocal Inequalities – solve & shade Formal mocks 				

