



## Curriculum Overview - Maths

	Term 1 & 2	Term 3 & 4	Term 5 & 6
<b>Year 7</b>	Place Value, Rounding, Mental and Written Methods for the Four Operations, Negative Numbers, Types of Number, Factors and Multiples, Fractions, Decimals, Percentages, Time	Percentages of Amounts, Ratio, Algebraic Notation, Algebraic Manipulation including Expanding Single Brackets, Patterns and Sequences, Solving Linear Equations (unknown on one side), The Probability Scale	Averages from a List, Data Representation, Area and Perimeter of 2D Shapes, Properties of 3D Shapes, Construction of Angles and Triangles, Angle Properties
<b>Year 8</b>	Estimation, Operations with Decimals, Negative Numbers, Laws of Indices, Prime Factor Decomposition, Lowest Common Multiple, Highest Common Factor, Fractions and Mixed Numbers, Decimals, Percentages including Multipliers, Reading Timetables	Ratio, Coordinates and Graphs, Algebraic Manipulation including Expanding and Factorising, Linear Sequences, Solving Linear Equations (unknowns on both sides), Inequalities, Probability including Sample Space Diagrams, Two-Way Tables and Frequency Trees, Averages from a Frequency Table	Circles, Volume, Surface Area, Constructions and Loci, Angles in Parallel Lines, Scatter Graphs, Pie Charts, Converting Units of Measure, Congruent and Similar Shapes
<b>Year 9</b>	Bounds, Standard Form, Surds, Fractional Indices, Lowest Common Multiple, Highest Common Factor, Fractions, Real Life Percentages Ratio and Proportion	Equation of a Straight Line, Expanding and Factorising Quadratics, Quadratic Sequences, Solving Linear Equations, Changing the Subject, Simultaneous Equations, Real Life Graphs, Probability Trees, Venn Diagrams, Averages from a Grouped Frequency Table	Arcs and Sectors of Circles, Volume and Surface Area, Pythagoras, Trigonometry, Angles in Polygons, Cumulative Frequency, Box Plots, Histograms, Transformations
<b>Year 10 (F)</b>	Integers and Place Value, Decimals, Index Laws, Standard Form, Fractions, Percentages, Growth and Decay, Ratio, Direct and Inverse Proportion,	Simplifying Algebraic Expressions, Collecting Like Terms, Expanding and Factorising, Substitution into Expressions and Formula, Solving Multi-Step Linear Equations (unknowns on both sides), Changing the Subject, Solve Linear	Pythagoras, Trigonometry, Perimeter and Area of Rectangles, Triangles and Trapezia, Area and Perimeter of Parts of a Circle, Surface Area and Volume, Angles in Parallel Lines, Angles in Polygons, Transformations including Enlargements,



Curriculum Overview - Maths

		Simultaneous Equations, Linear Sequences, Plot and Interpret Linear Graphs, Plot and Interpret Quadratic, Cubic and Reciprocal Graphs	Interpret Statistical Data by Calculating Averages, Interpret Charts and Graphs including Scatter Graphs
<b>Year 10 (H)</b>	Direct and Inverse Proportion, Estimation, Fractions, Decimals, Percentages, Recurring Decimals to Fractions, Compound Interest, Geometric Progressions, Quadratic Sequences, Indices, Surds, Perpendicular Lines, Equation of Circles, Solving Linear and Quadratic Equations, Quadratic Inequalities, Solving Linear and Non-Linear Simultaneous Equations, Algebraic Manipulation including Algebraic Fractions, Changing the Subject and Proof	Iteration, Functions, Gradients and Rates of Change, Constructions, Loci, Bearings, Circle Theorems, Similarity, Congruence	Trigonometric Ratios, 2D/3D Pythagoras, Transformations including Graph Transformations, Probability and Venn Diagrams, Histograms, Cumulative Frequency, Box Plots, Vectors, Transformations including Enlargement
<b>Year 11(F)</b>	Number and Ratio & Proportion Focus	Algebra and Geometry & Measure Focus	Statistics & Probability Focus
<b>Year 11 (H)</b>	Algebra Focus	Ratio & Proportion and Number Focus	Geometry & Measure and Statistics & Probability Focus
<b>Year 12</b>	<b>Pure Content</b> Proof and Mathematical Communication, Indices and Surds, Quadratic Functions, Triangle Geometry, Polynomials, Trigonometric Functions and Equations, Using Graphs, Coordinate Geometry, Differentiation, Application of Differentiation, Logarithms, Exponential Models, Binomial Expansion, Integration	<b>Statistics Content</b> Working with Data, Probability, Statistical Hypothesis Testing  <b>Mechanics Content</b> Vectors, Introduction to Kinematics, Motion with Constant Acceleration, Forces and Motion, Objects in Contact,	Begin Year 13 Content



## Curriculum Overview - Maths