

Maths

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Year 7 Curriculum Content	<p><u>Algebra</u> <u>HT1</u> Function machines Sequences <u>HT3</u> Substitution Writing formulae <u>HT4</u> Coordinates Real world graphs <u>HT5</u> Solving simple equations</p> <p><u>Number</u> <u>HT1</u> Negative numbers Ordering numbers <u>HT2</u> Adding and subtracting decimals Square numbers and roots Order of operations <u>HT3</u> Equivalent fractions Adding and subtracting fractions <u>HT4</u> Percentage of an amount Percentages with a calculator <u>HT6</u> Simplifying Ratios Ratio and sharing</p>	<p><u>Statistics</u> <u>HT2</u> Calculating averages Collecting data <u>HT4</u> Probability scales Experimental probability <u>HT5</u> Pie charts Statistical surveys</p> <p><u>Geometry</u> <u>HT1</u> Perimeter and area of rectangles Volume of cuboids <u>HT3</u> Measuring and drawing angles Angles in a triangle <u>HT5</u> Lines of symmetry Rotational Symmetry <u>HT6</u> Naming 3D shapes Nets of 3D shapes</p>
Year 8 Curriculum Content	<p><u>Algebra</u> <u>HT3</u> Graphs of linear equations Real-life graphs <u>HT4</u> Expanding single brackets Using index notation <u>HT6</u> Equations with brackets Rearranging formulae</p> <p><u>Number</u> <u>HT1</u> HCF and LCM Prime factors Percentage increase and decrease <u>HT2</u> Nth term of a sequence Fibonacci sequence <u>HT3</u></p>	<p><u>Statistics</u> <u>HT1</u> Mutually exclusive events Experimental probability <u>HT3</u> Pie charts Scatter diagrams <u>HT6</u> Grouped frequency tables Drawing frequency diagrams</p> <p><u>Geometry</u> <u>HT1</u> Angles in parallel lines Translations Rotations <u>HT2</u> Area of a triangle Area of a parallelogram <u>HT4</u></p>

	<p>Significant figures Standard form <u>HT4</u> Multiplying fractions by integers Dividing fractions by integers <u>HT5</u> Direct Proportion Inverse Proportion</p>	<p>Scales Shape and ratio <u>HT5</u> Parts of a circle Circumference of a circle</p>
Year 9 Curriculum Content	<p><u>Algebra</u> <u>HT1</u> Factorising expressions Rearranging formulae <u>HT3</u> Expanding double brackets <u>HT4</u> Graphs from quadratic equations Solving simultaneous equations</p> <p><u>Number</u> <u>HT1</u> Simple interest Reverse percentages <u>HT3</u> Multiplying fractions Dividing fractions Working with mixed numbers Rounding appropriately Solving problems Standard form <u>HT5</u> Speed Unit costs</p>	<p><u>Statistics</u> <u>HT2</u> Scatter diagrams Two way tables Time graphs Exponential graphs</p> <p><u>Geometry</u> <u>HT1</u> Angles in polygons Construction <u>HT2</u> Pythagoras's Theorem <u>HT4</u> Volume and surface area of prisms <u>HT5</u> Trigonometry to find lengths Trigonometry to find angles</p>
Year 10 Curriculum Content HIGHER	<p><u>Algebra</u> <u>HT1</u> Patterns in number Nth term of a linear sequence Nth term of a quadratic sequence <u>HT3</u> Expanding single and double brackets Factorisation Quadratic factorisation Changing the subject of a formula <u>HT4</u> Drawing linear graphs Finding the equation of a line Solving simultaneous equations with graphs Parallel and perpendicular lines</p> <p><u>Number</u> <u>Year 9 HT6</u> Negative numbers HCF and LCM</p>	<p><u>Statistics</u> <u>HT1</u> Scatter diagrams Statistical representation <u>HT6</u> Experimental probability Mutually exclusive and exhaustive outcomes Expectation Venn diagrams Two way tables</p> <p><u>Geometry</u> <u>HT2</u> Angle facts Angles in polygons Angles on parallel lines Scale drawings Properties of quadrilaterals <u>HT3</u> Congruent triangles</p>

	<p>Prime factorisation Adding and subtracting fractions Multiplying and dividing fractions Increase/decrease by a percentage <u>HT3</u> Ratio Best buys Compound interest Reverse percentages <u>HT6</u> Laws of indices Standard form</p>	<p>Transformations Bisectors Loci Plans and elevations <u>HT4</u> Circumference and area of circles Area of parallelograms and trapezia Sectors Volume of a prism Volume of a pyramid <u>HT5</u> Pythagoras's Theorem Trigonometric ratios Sine and cosine functions Trigonometry and bearings Trigonometry and isosceles triangles Similarity</p>
<p>Year 10 Curriculum Content FOUNDATION</p>	<p><u>Algebra</u> <u>HT2</u> Drawing linear graphs Gradient of a line Equations from graphs Real-life graphs <u>HT3</u> Substitution Expanding single brackets Expanding double brackets Factorisation Quadratic factorisation</p> <p><u>Number</u> <u>Year 9 HT6</u> Place value Ordering numbers BIDMAS <u>HT2</u> Prime numbers HCF and LCM Squares and square roots Rounding integers Rounding decimals Approximation <u>HT3</u> Fractions of quantities Multiplying and dividing fractions Adding and subtracting fractions <u>HT4</u> Ratio Speed, distance and time Best buys Direct proportion problems</p>	<p><u>Statistics</u> <u>HT1</u> Frequency tables Statistical diagrams Line graphs Averages <u>HT6</u> Calculating probabilities Mutually exclusive outcomes Experimental probability Expectation</p> <p><u>Geometry</u> <u>Year 9 HT6</u> Systems of measurement Scale drawings Nets <u>HT1</u> Angle facts Angles in triangles Regular polygons Properties of quadrilaterals Bearings <u>HT5</u> Compound shapes Area of a triangle Area of a trapezium Area of a circle <u>HT6</u> 3D shapes Volume of a cuboid Surface area of a cuboid Volume of a prism Surface area of a prism</p>
<p>Year 11 Curriculum Content HIGHER</p>	<p><u>Algebra</u> <u>HT1</u></p>	<p><u>Statistics</u> <u>HT2</u></p>

	<p>Linear equations Solving simultaneous equations Graphical inequalities Trial and improvement Plotting quadratics Solving quadratics by factorisation Solving quadratics by the formula Completing the square Solving non-linear simultaneous equations Quadratic inequalities <u>HT3</u> Distance-time graphs Velocity-time graphs Area under a curve Rates of change Equations of circles Graph transformations <u>HT4</u> Algebraic fractions Functions Iteration</p> <p><u>Number</u> <u>HT1</u> Rational numbers Estimating powers and roots Surds Limits of accuracy Direct and inverse proportion</p>	<p>Frequency polygons Cumulative frequency diagrams Histograms Box plots Combined events Tree diagrams Conditional Probability</p> <p><u>Geometry</u> <u>HT2</u> Circle theorems Cyclic quadrilaterals Tangents and chords Alternate segment theorem <u>HT3</u> Trigonometry for non-right angled triangles 3D problems Trigonometric ratios Sine for calculating areas of triangles <u>HT4</u> Properties of vectors Vector geometry</p>
<p>Year 11 Curriculum Content FOUNDATION</p>	<p><u>Algebra</u> <u>HT1</u> Solving linear equations Solving equations with brackets <u>HT3</u> Patterns in number Nth term of a linear sequence Nth term of a quadratic sequence <u>HT4</u> Solving simultaneous equations Linear inequalities <u>HT5</u> Distance-time graphs Velocity-time graphs Plotting quadratics Cubic and reciprocal graphs</p> <p><u>Number</u> <u>HT1</u> Equivalent percentages, fraction and decimals Percentage increase and decrease Compound interest Reverse percentages Direct and inverse proportion</p>	<p><u>Statistics</u> <u>HT2</u> Sampling Pie charts Scatter diagrams Averages <u>HT4</u> Combined events Two-way tables Tree diagrams</p> <p><u>Geometry</u> <u>HT2</u> Construction Bisectors Loci Sectors Pyramids Spheres <u>HT3</u> Pythagoras's theorem Trigonometric ratios Solving problems using trigonometry Congruent triangles Similarity</p>

	<u>HT4</u> Laws of indices Standard form	
Exam board and qualification name studying at KS4	Edexcel GCSE Mathematics 1MA1	