



Intent for *Mathematics* Curriculum 2026-2027

‘All children will experience an ambitious, well-balanced and comprehensive curriculum that develops intellectual and moral character. As a result, this will improve life chances, inter-personal relationships, social mobility and preparedness for employment. Our curriculum will encourage everyone to have a positive impact on society.’

Term	1a	1b	2a	2b	3a	3b
Year 7	Integers and Powers Squares, cubes, root, factors, multiples and primes Directed Numbers Ordering and arithmetic Simplifying Algebra Collecting like terms, expanding brackets and multiplying and dividing terms Calculations Multiplying and dividing, use of calculators and order of operations	Collecting and Representing Data Bar charts, pictograms and frequency polygons Decimals Ordering and arithmetic Approximations Rounding to integers, decimal places and significant figures Sequences Generate and use sequences, term to term rules and nth terms	Shape and Construction Geometric language, construction, symmetry, properties of quadrilaterals, similarity and congruence Percentages Conversion between fractions, decimals and percentages, percentage of quantities, percentage change Perimeter and Area Perimeter, area of parallelogram and trapezium, circumference and area of circles and compound shapes	Averages Calculating averages and range, stem and leaf diagrams Substitution Substitute into formulae and expressions Coordinates and Graphs Plotting, reading and using coordinate points, reading and drawing graphs of real-life situations	Fractions Equivalence, simplifying, arithmetic, fractions of a quantity Angles Angle notation, angle facts, using angle rules Ratio Writing, simplifying and converting into fraction Linear Equations Solving linear equations, function machines	Surface Area and Volume Surface area and volume of cubes, cuboid and volume of prisms Probability Describing probability in words and numbers, equally likely outcomes, possibility space diagrams and listing outcomes Personal Finance Exploring earning, spending and saving, banking and running a home or car.
Year 8	Approximations and Decimals Rounding to integers, decimal places and significant figures, estimating and calculating with decimals Construction Construction, properties of shape, similarity and congruence	3D Shape Drawing 3D shapes, isometric paper, faces, edges and vertices, and nets Indices Using index laws to evaluate numerical expressions and to simplify algebraic expressions	Compound Area Use formulae of area of 2D shapes and find area of compound shapes Substitution Substitute values into formulae and expressions, including fractions, decimals, powers and roots	Graphs Draw and interpret linear graphs for real life situations including distance time graphs Volume and Surface Area Volume and surface area of cubes, cuboid, and prisms, including cylinders Ratio	Equations and Inequalities Solving equations, showing inequalities on a number line and solving inequalities Angle Rules Basic angle rules, angles in polygons and with parallel lines Probability	Proportion Unitary method, recipes and value for money Statistical Diagrams Scatter diagrams, lines of best fit and correlation, and pie charts Sequences Find and use the nth term of a sequence,



	Simplifying Algebra Collecting like terms, expanding brackets, factorising, multiplying and dividing terms Metric Units Converting between metric units of length, capacity and mass, compound units	Averages – Tables and diagrams Calculating averages from frequency tables, stem and leaf diagrams Prime Factors Highest common factors and lowest common multiples, prime factor decomposition, Venn diagrams	Fractions, Decimals and Percentages Converting between and ordering mixed fraction, decimals and percentages	Simplifying ratios and sharing in a given ratio	Listing outcomes, possibility spaces diagrams, mutually exclusive events, relative frequency Calculating with Fractions The four rules with fractions	arithmetic and geometric sequences Personal Finance Exploring saving and borrowing, interest and debt, calculating interest and looking at student finance
Year 9	Percentages Percentage change, simple and compound interest, profit and loss and finding the original amount. Set Theory Drawing and interpreting Venn diagrams and using set theory notation Scales, Maps and Bearings Use and interpret diagrams and maps, measure, draw and interpret 3 figure bearings Standard Form and Significant Figures Rounding to significant figures, estimating, converting between standard form and ordinary numbers,	Manipulating Algebra Laws of indices, expanding brackets, factorising Area Area and circumference of circles, and part circles, arc length and area of sector Formulae Rearranging expressions and formulae, substitution Construction and Loci Standard formal constructions and loci	Graphs Drawing and interpreting graphs, plotting graphs, $y=mx+c$, gradients and y-intercepts, plotting non-linear graphs Plans, Elevations and Nets Draw and interpret plans and elevations, nets and 3D coordinates Forming and Solving Equations Solving linear equations, and forming equations to solve problems	Averages Averages and range from tables, including grouped data, comparing data using averages Probability Listing outcomes, mutually exclusive events, relative frequency, tree diagrams Angles Angle rules associated with parallel lines and polygons, justification and proof	Fractions The four operations with fractions, including mixed numbers Pythagoras' Theorem Understand and use the formulae in 2D Volume and Surface Area Volume and surface area of cuboid and prisms, including compound prisms and problem solving Transformation Geometry Perform and describe transformations using translation, reflection, rotations and enlargement	Trigonometry (plus only) Use trigonometry to find angles and sides in right angled triangles Scatter Diagrams (core and star only) Produce and interpret scatter diagrams, lines of best fit and correlation Quadratic Algebra (plus only) Expanding double brackets, factorising quadratic expressions, difference of 2 squares, solving quadratics Ratio and Proportion (core and star only) Sharing in a given ratio, solving ratio and proportion problems, best value Compound Units



	calculating with standard form					Speed, density and pressure Personal Finance Explore wages, salary, deductions, consider earnings for different careers and calculate deductions for tax and national insurance.
Year 10	Higher Complex calculations Circle Theorems Rearranging formulae Cumulative frequency Foundation Significant figures and prime factors Frequency Polygons Angle rules Brackets in Algebra GCSE statistics (H1 and F1 only) Collection of data Processing and representing data	Higher Laws of indices Combined transformations Quadratics + Iteration Foundation Fractions, decimals and percentages Maps and Plans Pythagoras Sequences and nth terms GCSE statistics (H1 and F1 only) Summarising data	Higher Similarity Simultaneous equations Proportionality + Ratio Foundation Averages Transformation geometry Solving equations GCSE statistics (H1 and F1) Scatter diagrams and correlation Time Series	Higher Graphical inequalities Area and volume Probability Foundation Proportion Coordinates and graphs Area and volume GCSE statistics (H1 and F1) Probability	Higher Arc and sectors Algebraic fractions 3D trigonometry and Pythagoras Non-Right-angled Trig Foundation Probability Ratio Unit conversions Congruence and similarity GCSE statistics (H1 and F1) Index numbers Probability distributions	Higher Higher number skills Graphs and functions Foundation Inequalities Loci Indices GCSE statistics (H1 and F1) Revision and Preparation for GCSE exam
Year 11	Higher Quadratic and other sequences Vectors Quadratic fractions and Proof	Higher Advanced Trigonometry Equations of Circles	Higher Extended graph work	All Tiers Revision and Preparation for GCSE exam	All Tiers Revision and Preparation for GCSE exam	All Tiers Revision and Preparation for GCSE exam



	Foundation Standard Form Rearranging formulae Distance – Time calculations	Foundation Vector Arithmetic Quadratic expressions and equations Probability	Foundation Simultaneous Equations Trigonometry			
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