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		Half Term 1	Half Term 2	Half Term 3	Half Term 4	Half Term 5	Half Term 6
Year 7	Pathway 1	Sequences Expressions Substitution Equations	Place value Median and range Rounding Fractions, decimals and percentages Mental and formal methods for addition and subtraction	Multiplication and division Factors and multiples BIDMAS Fractions and percentages of an amount	Negative numbers Equivalent fractions Adding and subtracting fractions	Measure and draw angles  Types of triangles and quadrilaterals  Constructing triangles  Pie charts  Angle facts  Angles in polygons	Probability Venn diagrams Sample space diagrams  Multiples and factors  LCM and HCF Prime numbers Prime factor trees
	Pathway 2	Fibonacci sequences Graphing functions	Standard form Fractions above one	Multiplying and dividing improper fractions and mixed numbers Fractions and percentages over 100%	Algebraic fractions	Constructing bisectors Identify polygons Simple geometric proofs	Complements of sets Conjectures Counter examples HCF and LCM using a Venn diagram
Year 8	Pathway 1	Ratio Proportion Conversion graphs Exchange rates Scale diagrams Multiplying and dividing fractions	Straight line graphs Scatter graphs Two way tables Frequency tables Venn diagrams Probability	Expanding single brackets Substitution Solving equations and inequalities Writing expressions Sequences Index laws	Fractions and percentages of an amount Fractions, decimals and percentages Standard form Calculations with standard form Rounding numbers	Angle facts Angles in triangles and quadrilaterals Angles in parallel lines  Area and perimeter of rectangles, triangles, parallelograms, trapeziums and circles	Lines of symmetry Equations of horizontal and vertical lines Data collections sheets and questionnaires Pie charts and line graphs Types of data



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	Pathway 2	Direct proportion graphs Improper fractions and mixed numbers Algebraic fractions	Gradient Non - linear graphs Midpoint of line segments	Expanding double brackets  Form and solve equations Unknowns on both sides  Nth term of a sequence	Reverse percentages Fractional and negative indices Upper and lower bounds Error intervals	Angles in polygons Constructing bisectors Simple geometric proofs Area and perimeter of compound shapes	Misleading graphs Sampling
Year 9	Pathway 1	Straight line graphs Gradient and intercept Solving equations and inequalities Substitution Rearranging formulae Testing conjectures	2D and 3D shapes Plans and elevations Surface area and Volume Congruent triangles and shapes Loci and constructions	Prime numbers, square numbers and cube numbers Factors, multiples, HCF and LCM Sequences Standard form Add, subtract, multiply and divide fractions Primes and prime factors Converting fractions, percentages and decimals Tax, VAT, NI, Interest rates, Wage, Income	Angle facts Angles in triangles and quadrilaterals Rotations, translations, reflections. Equations of straight lines. Describing transformations. Pythagoras' Theorem	Similar shapes Enlargements Describing enlargements Direct Proportion problems Best buy Conversion graphs	Speed, distance and time Density, mass and volume Prime factor trees Venn diagrams for HCF and LCM Probability Scatter graphs Frequency trees Solving equations
	Pathway 2	Perpendicular lines inverse proportion graphs Complex formulae	Surface area and volume of compound shapes and cones, pyramids and spheres Averages from frequency tables	Surds Compound interest and depreciation Multipliers	Forming and solving equations using geometric facts Addition, subtraction of column vectors . 3D Pythagoras' Theorem	Enlargements with fractional and negative scale factors Describing enlargements with fractional and negative scale factors Inverse proportion and	Tree diagrams Error intervals Standard form





						direct proportion graphs	
Year 10	Higher	Calculations, checking and rounding Indices, roots, reciprocals and BIDMAS Factors, multiples, primes, standard form and surds Expressions and equations Sequences	Averages and range Representing and interpreting data Scatter graphs Fractions and percentages	Ratio and proportion Polygons, angles and parallel lines Pythagoras' theorem and Trigonometry Real-life graphs	Linear graphs and coordinate geometry Quadratics, cubics and graphs	Perimeter, area and circles 3D forms and volume, cylinders, cones and spheres Accuracy and bounds Transformations	Constructions, loci and bearings Solving quadratics Simultaneous equations
	Foundation	Decimals Indices, powers and roots Factors, multiples and primes Expressions and substitution	Tables, charts and graphs  Pie charts Scatter graphs Fraction, decimals and percentages	Percentages Equations and inequalities Sequences	Properties of shapes  Parallel lines and angle facts Interior and exterior angles of polygons	Sampling and averages Perimeter, area and volume Real-life graphs	Straight-line graphs Transformations Plans and elevations
Year 11	Higher	Inequalities Probability Multiplicative reasoning Similarity and congruence in 2D and 3D	Graphs of trigonometric functions Sine rule and Cosine rule  Collecting data Cumulative frequency and box plots Histograms	Quadratics, cubics and circles Circle theorems Circle geometry Changing the subject of a formula Algebraic fractions Rationalising surds Proof	Vectors and geometric proof Reciprocal and exponential graphs Gradient and area under graphs Direct and inverse proportion	Revision and exam practice	Revision and exam practice



## Maths

Foundation	Ratio and proportion Right-angled triangles: Pythagoras' theorem and trigonometry Probability Multiplicative reasoning	Constructions, loci and bearings Quadratic equations Quadratic graphs Circles, cylinders, cones and spheres	Fractions and reciprocals  Indices and standard form  Similarity and congruence in 2D  Vectors	Rearranging equations  Cubic graphs Reciprocal graphs Simultaneous equations	Revision and exam practice	Revision and exam practice
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