

| Focus area | Emerging – a student who has emerging skills in the Y7 Maths curriculum will be able to: | Developing – a student who has developing skills in the Y7 Maths curriculum will be able to: | Secure – a student who has secure skills in the Y7 Maths curriculum will be able to: | Mastered – a student who has mastered the skills in the Y7 Maths curriculum will be able to: |
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| Algebraic Thinking <ul style="list-style-type: none"> Sequences Understand and use algebraic notation Equality and Equivalence | <p>Describe and continue a sequence given diagrammatically Predict and check terms of a sequence</p> <p>Use a single function machine</p> <p>Understand and use fact families</p> | <p>Represent sequences in tabular and graphical form Continue linear sequence Explain term to term rule in words</p> <p>Use a two-step function machine Solve one step linear equations using inverses</p> | <p>Recognise the difference between linear and non-linear sequence Continue non-linear sequence Use diagrams and letters with single and two step functions Simplify algebraic expressions by collecting like terms</p> | <p>Finding missing numbers within sequences Substitute values into two step functions Generate sequences given algebraic rule Represent functions graphically</p> |
| Place Value and Proportion <ul style="list-style-type: none"> Place Value and Ordering Integers and Decimals Fraction, Decimal and Percentages | <p>Recognise and write integers up to 1 billion in words and figures Work out interval and position integers on a number line Order a list of integers</p> | <p>Represent decimals and fractions as diagrams and on a number line Compare two numbers using mathematical notation Round integers to the nearest power of 10 Identify and use simple equivalent fractions</p> | <p>Find range and median of a set of numbers Round a number to 1 significant figure Convert fluently between fractions and decimals Use pie charts involving simple fractions</p> | <p>Write numbers in standard form Interpret pie charts using simple fractions Explore fractions, decimals and percentages greater than 1</p> |
| Applications of Number <ul style="list-style-type: none"> Solving Problems with addition and subtraction | <p>Use mental strategies for addition and subtraction Use formal methods for addition and subtraction of integers Multiply integers by powers of ten</p> | <p>Use formal methods for addition and subtraction of decimals Divide integers by powers of ten Understand and use factors Understand and use multiples</p> | <p>Choose the most appropriate method of addition and subtraction Solve problems in the context of perimeter Solve financial maths problems</p> | <p>Solve problems involving tables and timetables Solve problems with frequency trees Solve problems with bar charts and line charts Add and subtract numbers in standard form</p> |

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| <ul style="list-style-type: none"> Solving problems with multiplication and division Fractions and percentages of amounts | Find a fraction of an amount | <p>Use formal methods to multiply and divide integers</p> <p>Understand and use order of operations</p> <p>Solve problems using the area of rectangles and parallelograms</p> <p>Solve problems using the mean</p> <p>Find the percentage of an amount (multiples of 5%) using mental methods</p> <p>Find the percentage of an amount using a calculator</p> | <p>Multiply and divide decimals by powers of ten</p> <p>Convert metric units</p> <p>Use formal methods to multiply and divide decimals</p> <p>Solve problems using the area of triangles</p> <p>Find the percentage of an amount (any value %) using mental methods</p> | <p>Multiply by 0.1 and 0.01</p> <p>Solve problems using the area of trapezia</p> <p>Explore multiplication and division in algebra</p> <p>Solve problems with fractions greater than 1 and percentages greater than 100%</p> |
| <p>Directed Number</p> <ul style="list-style-type: none"> Operations and equations with directed number | Understand and use representations of directed numbers Order directed numbers using lines and appropriate symbols | <p>Perform calculations that cross zero</p> <p>Add directed numbers</p> <p>Use a calculator for directed number calculations</p> | <p>Subtract directed numbers</p> <p>Multiplication of directed numbers</p> <p>Divide directed numbers</p> <p>Evaluate algebraic expressions with directed number</p> <p>Solve two-step equations</p> <p>Use order of operations with directed number</p> | <p>Roots of positive numbers</p> <p>Explore higher powers and roots</p> |
| <p>Fractional Thinking</p> <ul style="list-style-type: none"> Addition and subtraction of fractions | Understand representations of fractions Add and subtract fractions with same denominators | <p>Compare fractions with different denominators</p> <p>Simplify fractions</p> <p>Add and subtract fractions where the denominators share a common multiple</p> | <p>Convert between mixed numbers and improper fractions.</p> <p>Add and subtract fractions with different denominators</p> <p>Including mixed numbers</p> <p>Use equivalence to add and subtract decimals and fractions</p> | <p>Using fractions in algebraic contexts</p> <p>Add and subtract simple algebraic fractions</p> |

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| <p>Lines and angles</p> <ul style="list-style-type: none"> Constructing, measuring and using geometric notation Develop geometric reasoning | <p>Understand and use letter and labelling conventions Draw and measure line segments Understand angles as a measure of turn Classify angles Identify parallel and perpendicular lines Recognise types of triangle Recognise types of quadrilateral</p> | <p>Measure and draw angles up to 180° Identify polygons up to a decagon Interpret simple pie charts using proportion Understand and use the sum of angles at a point and on a straight line Understand and use the equality of vertically opposite angles Know and apply the sum of angles in triangles and quadrilaterals Find common factors of a set of numbers including the HCF Find common multiples of a set of numbers including LCM</p> | <p>Draw and measure angles between 180° and 360° Interpret pie charts using a protractor Draw pie charts Solve angle problems using properties of triangles and quadrilaterals Recognise square and triangular numbers Write a number as a product of its prime factors</p> | <p>Construct triangles using SSS, SAS and ASA Construct more complex polygons Solve complex angle problems Find and use the angle sum of any polygon Investigate angles in parallel lines Understand and use parallel line angle rules Use known facts to obtain simple proofs</p> |
| <p>Reasoning with number</p> <ul style="list-style-type: none"> Developing number sense Sets and probability Prime numbers and proof | <p>Know and use mental addition and subtraction methods for integers Know and use mental multiplication and division strategies for integers Identify and represent sets Know and use the vocabulary of probability</p> | <p>Know and use mental arithmetic strategies for decimals Use factors to simplify calculations Use estimation as a method for checking mental calculations Use known number facts to derive other facts</p> | <p>Know and use mental arithmetic for fractions Use known algebraic facts to derive other facts Understand and use the intersection of sets Understand and use the union of sets Recognise square and triangular numbers</p> | <p>Understand and use the complement of a set Use a Venn diagram to calculate the HCF and LCM Make and test conjectures Use counterexamples to disprove a conjecture</p> |

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| | <p>Generate sample spaces for single events</p> <p>Calculate the probability of a single event</p> <p>Understand and use the probability scale</p> <p>Know that the sum of all probabilities of all possible outcomes is 1</p> <p>Find and use multiples</p> | <p>Interpret and create Venn diagrams</p> <p>Identify factors of numbers and expressions</p> <p>Recognise and identify prime numbers</p> <p>Find common factors of a set of numbers including the HCF</p> <p>Find common multiples of a set of numbers including LCM</p> | <p>Write a number as a product of its prime factors</p> | |
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| Proportional Reasoning Ratio and Scale Multiplicative Change Multiplying and Dividing Fractions | Understand the meaning and representation of ratio Understand and use ratio notation Simplify ratio values Solve problems involving direct proportion Explore conversion graphs Multiply a fraction by an integer | Divide in a given ratio Compare ratios and related fractions Convert between currencies Draw and interpret scale drawings Multiply two fractions | Solve problems involving ratios in the form 1:n Understand Pi as the ratio between the diameter and circumference Explore relationships between similar shapes Understand scale factors Interpret maps and using scale factors and ratios Understand and use reciprocals Divide two fractions | Express ratios in the form 1:n or n:1 Understand the gradient of a straight line as a ratio Explore direct proportion graphs Multiply and divide improper and mixed fractions Multiply and divide algebraic fractions |
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| Representations | | | | |

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| Working in the Cartesian Plane | Work with coordinates in all 4 quadrants | Identify and draw lines that are parallel to the axes Recognise and use lines in the form $y=x+a$ | Recognise and use the line $y=x$ Recognise and use lines in the form $y=kx$ Link graphs to sequences Plot graphs of the form $y=mx+c$ | Link $y=kx$ to direct proportion problems Explore the gradient of $y=kx$ Explore graphs with negative gradients Explore non-linear graphs Find the midpoint of a line segment |
| Representing Data | Draw and interpret scatter graphs Identify different types of data Represent data into 2-way tables | Understand and use correlation Read and interpret ungrouped frequency tables Represent grouped discrete data | Draw and interpret the line of best fit Read and interpret grouped frequency tables | Represent continuous data into grouped equal classes |
| Tables and Probability | Calculate probabilities from events | Construct sample spaces for 1 or more events Find probabilities from sample spaces Find probabilities from two-way tables | Use the product rule to find the total number of outcomes Find probabilities from Venn diagrams | |
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| Algebraic Techniques Brackets, Equations and Inequalities | Form algebraic expressions Use directed number with algebra | Multiply out a single bracket Factorise a single bracket Solve equations with brackets Understand and solve simple inequalities | Expand multiply brackets and simplify Form equations with brackets | Expand a pair of binomials Form and solve inequalities |

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| Sequences | Generate a sequence give a rule in words | Identify and use formulae, expressions, equations and identities Generate a sequence given a simple algebraic rule | Solve equations and inequalities with unknowns on both sides Generate a sequence given a complex algebraic rule Calculate the nth term for a linear sequence | Form equations and inequalities with unknowns on both sides |
| Indices | Adding and subtracting expressions with indices | Simplify algebraic expressions by multiplying indices Simplify algebraic expressions by dividing indices | Use addition law for indices Using subtraction law for indices | Exploring powers of powers |
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| Developing Number | | | | |
| Fractions and Percentages | Convert fluently between key fractions, decimals and percentages Calculate key fraction decimal and percentages of amounts without a calculator | Calculate key fraction decimal and percentages of amounts using calculator methods Convert between decimals and percentages greater than 100% | Calculate percentage decrease with a multiplier Express one number as a fraction or a percentage of another without a calculator Express one number as a fraction or a percentage of | Find the original amount given the percentage less than 100% Find the original amount given the percentage greater than 100% |

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| Standard Form | Investigate powers of 10 | Work with numbers greater than 1 in standard form Investigate negative powers of 10 | another using calculator methods Work with percentage change Choose appropriate methods to solve percentage problems | Choose appropriate methods to solve complex percentage problems |
| Number Sense | Round numbers to powers of 10 and 1 significant figure Round numbers to a given number of decimal places | Estimate the answer to a calculation Calculate using the order of operations Calculate with money Solve problems involving time and calendar | Work with numbers in standard form Compare and order numbers in standard form Mentally calculate with numbers in standard form Add and subtract numbers in standard form Multiply and divide numbers in standard form Use a calculator to work with numbers in standard form Convert metric units of length Convert metric units of weight and capacity | Understand and use negative indices Understand and use fractional indices Understand and use error intervals Convert metric units of area Convert metric units of volume |
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| Developing Geometry | | | | |
| Angles in parallel lines and polygons | Understand and use basic angle rules and notation Construct triangles and quadrilaterals Investigate the properties of special quadrilaterals | Investigate angles between parallel lines and the transversal Identify and calculate with alternate and corresponding angles Identify and calculate with sides and angles in special quadrilaterals | Identify and calculate co-interior angles Understand and use the sum of interior angles of polygons Understand and use the sum of exterior angles of polygons Calculate missing interior angles in polygons | Solve complex problems involving parallel lines Understand and use the properties of diagonals in quadrilaterals Prove simple geometric facts Construct the angle bisector |

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| Area of trapezia and circles | Calculate the area of rectangles, triangles and parallelograms | Calculate the area of a trapezium Calculate the area and perimeter of compound shapes | Investigate the area of a circle Calculate the area of a circle and parts of a circle with and without a calculator | Construct the perpendicular bisector of a line segment Calculate the area and perimeter of more complex compound shapes |
| Lines of Symmetry and Rotation | Recognise the line of symmetry | Reflect a shape in a horizontal or vertical line | Reflect a shape in a diagonal line | Describe the reflection of a shape |
| Reasoning with Data | | | | |
| The Data Handling Cycle | Draw and interpret pictograms, bar charts and vertical line charts | Set up a statistical enquiry Design and criticise a questionnaire Draw and interpret multiple bar charts Find and interpret the range | Draw and interpret Pie Charts Draw and interpret Line Charts Represent and interpret grouped quantitative data Choose the most appropriate diagram for a given data set | Compare distributions in charts Identify misleading charts |
| Measures of Location | Understand and use the mode and median | Understand and use the mean | Identify outliers Choose the most appropriate average Compare distributions using averages and range | Find the mean from an ungrouped frequency table Find the mean from a grouped frequency table |

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| Reasoning with Algebra <ul style="list-style-type: none"> • Straight line Graphs • Forming and solving equations • Testing Conjectures | <p>Draw lines parallel to the axes Draw the line $y=x$ and $y=-x$ Use a table of values</p> <p>Solve one and two step equations and inequalities Substitute into formulae and equations</p> <p>To know and use factors, multiples and primes</p> | <p>Compare gradients and intercepts Understand and use $y=mx+c$</p> <p>Solve equations involving brackets Solve inequalities with negative numbers Solve equations with unknown on both sides</p> | <p>Write an equation for $y=mx+c$ Find the equation from a graph Interpret gradients and intercepts from real life situations</p> <p>Rearrange one step formulae</p> | <p>Model real-life graphs involving inverse proportion Understand and use perpendicular gradients</p> <p>Rearrange two step formulae including brackets and powers</p> |
| Constructing 2D and 3D Shapes <ul style="list-style-type: none"> • 3-Dimensional Shapes • Constructions and Congruency | <p>Know the names of 2D and 3D shapes Draw accurate nets of 3D solids Calculate the area of 2D shapes</p> <p>Draw and measure an angle Construct and interpret scale drawings Construct any triangle given side / angle information</p> | <p>Draw plan and elevation drawings of 3d shapes Calculate the surface area of cubes and cuboids Calculate volume of cubes and cuboids</p> <p>Draw the locus from a point Construct the perpendicular bisector Identify congruent figures</p> | <p>Calculate the surface area of triangular prisms Calculate the volume of cylinders and prisms</p> <p>Construct a perpendicular from a point and to a point</p> | <p>Calculate the surface area of a cylinder Calculate the volume of cones and spheres</p> <p>Explore and identify congruent triangles</p> |
| Reasoning with Number <ul style="list-style-type: none"> • Numbers | <p>Understand and use integers</p> | | | <p>Understand and use surds</p> |

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| <ul style="list-style-type: none"> Using Percentages Maths and Money | <p>Use directed numbers</p> <p>Use equivalent fractions, decimals and percentages</p> <p>Solve problems with bills and bank statements</p> | <p>Understand and use rational numbers</p> <p>Solve problems</p> <p>Calculate the HCF and LCM of two numbers</p> <p>To perform the 4 operations on fractions</p> <p>Calculate percentage increase and decrease for any number (calculator and non-calculator)</p> <p>Express a number as a percentage</p> <p>Calculate simple interest</p> <p>Solve problems involving VAT</p> <p>Calculate wages and taxes</p> <p>Solve problems with exchange rates</p> <p>Solve unit pricing problems</p> | <p>Write any number in and out of standard form</p> <p>Solve reverse percentage problems</p> <p>Calculate compound interest</p> | <p>Perform calculations with numbers in standard form</p> <p>Solve problems with repeated percentage change</p> |
| <p>Reasoning with Geometry</p> <ul style="list-style-type: none"> Deduction (Angles) Rotation and Translations Pythagoras' Theorem | <p>Calculate missing angles involving straight lines and angles around a point</p> <p>Identify the order of rotational symmetry of a shape</p> | <p>Solve problems involving parallel lines</p> <p>Draw and describe translate a shape</p> <p>Draw and describe the rotation of a shape</p> <p>Draw and describe the rotation of a shape</p> | <p>Set up and solve equations involving angle problems</p> <p>Calculate the hypotenuse using Pythagoras' theorem</p> <p>Calculate a smaller side in a triangle using Pythagoras' theorem</p> | <p>Find the result of a series of transformations</p> <p>Apply Pythagoras' theorem to problems</p> <p>Use Pythagoras theorems in 3D solids</p> |

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| <p>Reasoning with Proportion</p> <ul style="list-style-type: none"> • Enlargement and Similarity • Ratio • Rates | <p>Recognise an enlargement and similarity of a shape</p> <p>Simplify ratios Solve ratio problems when given the whole or part value</p> <p>Use distance time graphs</p> | <p>Use direct proportion graphs Solve best buy problems</p> <p>Solve speed distance time problems with and without a calculator Solve problems involving density mass and volume</p> | <p>Draw and describe the enlargement of a shape using a positive integer value Work out the missing sides and angles in a similar shape</p> <p>Solve problems involving ratio and algebra</p> | <p>Draw and describe the enlargement of a shape using a negative integer value Draw and describe the enlargement of a shape using a fractional value Solve problems using similar shapes</p> <p>Graph inverse relationships</p> <p>Convert between compound units</p> |
| <p>Representations</p> <ul style="list-style-type: none"> • Probability • Algebraic Representation | <p>Use the 5 probability words to describe the likelihood of an event and plot on a number line Work out the probability for single events</p> <p>Complete a table of values and plot a linear graph</p> | <p>Work out the relative probability of an experiment Work out the expected value from an event</p> <p>Complete a table of values for a quadratic graph Plot the points for a quadratic graph</p> | <p>Use diagrams to work out probabilities Use tree diagrams to solve probability problems with replacement</p> <p>Interpret quadratic graphs Represent inequalities</p> | <p>Interpret graphs including reciprocal Investigate graphs of simultaneous equations</p> |

| Focus area | Number | Algebra | Geometry | Statistics and Probability |
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| Grade G Foundation | Place Value Ordering Integers Ordering Decimals Reading Scales Simple Mathematical Notation | | Tessellations and Congruency Polygons Naming of Angles | Probability Scale Tally Charts and Bar Charts Pictograms |
| Grade F Foundation | Interpreting Real-Life Graphs Adding Integers and Decimals Subtracting Integers and Decimals Multiplying Integers Dividing Integers Inverse Operations Money Questions Negatives in Real Life Factors, Multiples and Primes Multiply and Divide by Powers of 10 Rounding to Nearest 10,100,1000 Introduction to Fractions | Introduction to Algebra Coordinates | Simple Geometric Definitions Properties of Solids Symmetries | Data – Discrete and Continuous |
| Grade E Foundation Intermediate | Multiplying Decimals Dividing Decimals Equivalent Fractions Simplifying Fractions Comparing Fractions Introduction to Powers/Indices Rounding to Decimal Places Listing Strategies Introduction to Ratio Using Ratio with Recipe Questions Introduction to Percentages Value for Money | Simplifying Like Terms – Adding and Subtracting Function Machines Generating a Sequence | Nets Measuring and Drawing Angles Drawing a Triangle using a Protractor Perimeters Area of Rectangles Circle Definitions | Listing Outcomes Calculating Probabilities Possibility Spaces Two-Way Tables |
| Grade D Foundation Intermediate | Four Rules for Negatives Adding and Subtracting Fractions Finding a Fraction of an Amount Multiplying Fractions Dividing Fractions Order of Operations Calculator Questions Product of Primes | Simplifying – Multiplication Simplifying – Division Expanding Brackets Substitution Solving Equations Linear Sequences Finding the nth term Straight Line Graphs | Angles on a Straight Line Angles around a Point Angles in a Triangle Properties of Triangles Angle Sum of Polygons Drawing a triangle using a compass | Questionnaires Mutually Exclusive Events Experimental Probabilities Venn Diagrams Pie Charts Averages and Range |

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| | <p>Squares, Cubes and Roots</p> <p>Working with Indices</p> <p>Decimals and Fractions</p> <p>Fractions, Percentages and Decimals</p> <p>Percentage of an Amount (With/without calculator)</p> <p>Change to a Percentage (With/without calculator)</p> <p>Simple Interest</p> <p>Using Place Value</p> <p>Introduction to Proportion</p> <p>Exchanging Money</p> <p>Sharing using a Ratio</p> <p>Distance-Time Graphs</p> | | <p>Problems with Co-ordinate Axes</p> <p>Midpoint of a Line on a Graph</p> <p>Reflections</p> <p>Rotations</p> <p>Translations</p> <p>Enlargements</p> <p>Area of a Triangle</p> <p>Area of a Parallelogram</p> <p>Area of a Trapezium</p> <p>Unit Conversions</p> <p>Speed Distance Time</p> <p>Surface Area of a Cuboid</p> <p>Volume of a Cuboid</p> <p>Area of Circle</p> <p>Circumference of a Circle</p> <p>Tangents, Arcs, Sectors and Segments</p> <p>Bisecting an Angle</p> <p>Bisecting a Line</p> <p>Bearings</p> | |
| <p>Grade C</p> <p>Intermediate</p> <p>Higher</p> | <p>Reciprocals</p> <p>Highest Common Factor</p> <p>Lowest Common Multiple</p> <p>Rounding to Significant Figures</p> <p>Estimating Answers</p> <p>Introduction to Bounds</p> <p>Recurring Decimals to Fractions</p> <p>Increase/Decrease by a Percentage</p> <p>Percentage Change</p> | <p>Gradient of a Line</p> <p>Drawing Quadratic Graphs</p> <p>Quadratic Sequence from the nth term</p> <p>Special Sequences</p> <p>Simple Factorisation</p> <p>Expanding and Simplifying Brackets</p> <p>Solving Equations</p> <p>Forming Formulae and Equations</p> <p>Rearranging Simple Formulae</p> <p>Inequalities on a Number Line</p> <p>Solving Linear Inequalities</p> <p>Solving Simultaneous Equations Graphically</p> | <p>Geometric Properties of</p> <p>Quadrilaterals</p> <p>Plans and Elevations</p> <p>Surface Area of a Prism</p> <p>Volume of a Prism</p> <p>Dimensions</p> <p>Density</p> <p>Constructing Perpendiculars</p> <p>Constructing Angles</p> <p>Loci</p> <p>Enlargements Fractional Scale</p> <p>Factors</p> <p>Similar Shapes</p> <p>Pythagoras Theorem</p> | <p>Frequency Diagrams</p> <p>Sampling Populations</p> <p>Averages from a Table</p> |
| <p>Grade B</p> <p>Intermediate</p> <p>Higher</p> | <p>Standard Form</p> <p>Index Notation</p> <p>Negative Indices</p> <p>Error Intervals</p> | <p>Factorising and Solving Quadratic Equations</p> <p>The Difference of Two Squares</p> <p>Simultaneous Equations</p> | <p>Trigonometry</p> <p>Circle Theorems</p> | <p>Tree Diagrams</p> <p>Cumulative Frequency Diagrams</p> |

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| | <p>Mathematical Reasoning Compound Interest and Depreciation Reverse Percentage Problems</p> | <p>Trial and Improvement Finding the Equation of a Straight Line Finding nth term of Quadratic Sequences</p> | | |
| <p>Grade A/A* Higher</p> | <p>Fractional Indices Recurring Decimals to Fractions Proof Direct and Indirect Proportion Upper and Lower Bounds Surd</p> | <p>Rearranging Difficult Formulae Solving Quadratics with the Formula Factorising Harder Quadratics Algebraic Fractions Cubic and Reciprocal Graphs Trigonometric Graphs Transformation of Functions Regions Area under a Curve</p> | <p>Similarity – Area and Volume Congruent Triangles Proof Sectors of a Circle Spheres Pyramids Cones Enlargements Negative Scale Factor Sine Rule Cosine Rule Area of a Triangle using Trig 3D Pythagoras</p> | <p>Probability of Combined Events Histograms</p> |