

Year 8 Curriculum Map

Term	Topics	Topics	Key Words
1	Number and Algebra 1	Multiplying and Dividing by negative numbers HCF and LCM Powers and Roots Prime Factors Sequences 1 Sequences 2	Positive, negative, BODMAS Factor, multiple, integer, prime, HCF, LCM Power, Index, Root, Square, cube Prime, factor, multiple, Factor Tree, HCF, LCM Sequence, pattern, term, generate, flow diagram, rule Sequence, pattern, term, generate, flow diagram, difference, arithmetic sequence ,constant difference,
	----- Geometry & Measures 1	Alternate and Corresponding angles Interior and Exterior Angles of Polygons Geometric Proof The geometric properties of quadrilaterals Constructions	----- Alternate, supplementary, complimentary, corresponding, intersect, parallel, angle Interior, exterior, sum, polygon, regular, Proof, fact, demonstration Parallel, bisect, symmetry, rotational, equal, diagonal, adjacent, right angle Compass, ruler, pencil, perpendicular, bisect, arc, intersect, radius, construct
	----- Statistics 1	Probability and Probability Scales Mutually Exclusive events Calculating Probabilities Experimental Probabilities	----- Outcome, event, probability, scale, impossible, certain, evens, chance Mutually exclusive, event, outcome Event, outcome, probability, sample space Event, outcome, probability, experimental, theoretical, trial
2	Number 2	Fractions and Decimals Adding and Subtracting fractions Multiplying and Dividing fractions Percentages Percentage Increase and Decrease Real life problems	Numerator, denominator, terminating, recurring Common denominator, mixed number, top-heavy fraction Fraction, improper, mixed number, half, third, quarter Percentage, denominator, equivalent fraction Increase, decrease, reduction, VAT Deposit, profit, loss, credit, cost, selling
	----- Algebra 2	Algebraic Shorthand Like Terms Expanding Brackets Using Algebra with Shapes	----- Symbol, operation, equal Expression, term, like terms, simplify Multiply out, expand, factorise Perimeter, area, expansion, simplify

	----- Geometry and Measures 2	Index Notation ----- The Circle Circumference of a Circle Area of a Circle Surface Area and Volume of Prisms Imperial Units	Power, index, indices, cancelling ----- Centre, circumference, arc, radius, diameter, chord, tangent, segment, sector, semicircle Circumference, diameter, pi, radius area, diameter, pi, radius Prism, cross section, volume, surface area Metric, imperial, convert, capacity, length, mass
3	Algebra 3 ----- Number 3 ----- Geometry and Measures 3	Linear Functions Finding a function from Inputs and Outputs Graphs of Functions Gradient of a Straight Line Real-Life Graphs ----- Powers of 10 Large Numbers Estimations Working with Decimals Efficient Calculations Multiplying and dividing decimals ----- Congruent Shapes Combinations of Transformations Enlargements Planes of Symmetry Shape and Ratio	Mapping, function, linear Function, input, out, inverse Coordinates, axes, equation Gradient, intercept, coordinates, axes Travel graph, average speed ----- Round, decimal, power of 10 Place value, power, million, billion Estimate, round, approximate Integer, tenths, hundredths, decimal, rounding Calculator, keys, display, square, root, brackets, fraction, power Long division, long multiplication, column method, chunking ----- Transformation, object, image, congruent Transformation, map, reflect, rotate, translate Object, image, enlarge, centre of enlargement, scale factor, negative enlargement Plane, solid, symmetry, axis Ratio, length, are, volume, simplest form
4	Algebra 4 ----- Statistics 2	Solving Equations Equations involving negative numbers Equations with unknowns on both sides Substituting into expressions Substituting into formulae Creating your own expressions and formulae ----- Statistical Surveys Stem and Leaf Diagrams	Equation, linear, unknown, solve Equation, linear, unknown, solve, negative Equation, linear, unknown, solve, negative Expression, substitution, variable Formula, variable Expression, formula ----- Problem, hypothesis, survey, experiment, questionnaire, observation, data

	Number 4	<p>Interpreting graphs and diagrams Scatter graphs Analysing Data</p> <hr/> <p>Fractions Adding and Subtracting Fractions Order of Operations Multiplying Decimals Dividing Decimals</p>	<p>Range, mean, median, mode, average, stem-and-leaf diagram Interpret, criticise, secondary data, Scatter graph, correlation, positive, negative Hypothesis, data, analysis, report, conclusion</p> <hr/> <p>Top-heavy, improper, mixed number, cancelling, equivalent Common denominator, LCM Operations, order, brackets power, index Decimal place, product, equivalent product Decimal place, equivalent calculation</p>
5	<p>Algebra 5</p> <hr/> <p>Solving Problems</p>	<p>Expand and Simplify Solving Equations by Trial and Improvement Constructing Equations Problems with Graphs Real-life graphs Change of Subject</p> <hr/> <p>Number and Measures Using algebra, graphs and diagrams to solve problems Logic and Proof Proportion Ratio</p>	<p>Expression, equation, expand, simplify, like terms Linear, non-linear, powers, trial and improvement Equation, construct, solve Gradient, intercept, rise, run Axes, relationship, variable Subject, transform, express in terms of</p> <hr/> <p>Investigate, solve, problem, numbers, measures, conversions, bound, consecutive Algebra, graph, equation, flowchart Solution, proof, trial and improvement, integer, consecutive, best value, counter-example Proportion, fraction, decimal, percentage, ratio, conversion Ratio, unitary method, percentage, fraction, conversion</p>
6	<p>Geometry and Measures 4</p> <hr/> <p>Statistics 3</p>	<p>Plans and Elevations Scale Drawings Finding the Mid-point of a line segment Map Scales Loci Bearings A cube Investigation</p> <hr/> <p>Collecting Data for Frequency Tables Assumed Mean and Working with Stats</p>	<p>Plans and Elevations Scale Drawings Finding the Mid-point of a line segment Map Scales Loci Bearings A cube Investigation</p> <hr/> <p>Collecting Data for Frequency Tables Assumed Mean and Working with Stats</p>

		Drawing Frequency Diagrams Comparing Data Comparing sets of Data Experimental and Theoretical Probability	Drawing Frequency Diagrams Comparing Data Comparing sets of Data Experimental and Theoretical Probability
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