



MATHEMATICS - CURRICULUM MAP

YEAR GROUPS	TERM 1A	TERM 1B	TERM 2A	TERM 2B	TERM 3A	TERM 3B
YEAR 7 & 8 ROUTE A	Place value, ordering integers and decimals Four operations with integers & decimals Factors, multiples, primes, HCF & LCM Introduction to fractions, decimals, percentages Rounding & estimation	Function machines & simple expressions Simplifying expressions One-step and two-step equations Generating linear sequences Coordinates & plotting	Perimeter & area of rectangles, triangles, parallelograms Volume of cuboids & prisms Angle rules (on a line, at a point, in a triangle) Symmetry & simple constructions	Collecting & organising data Pictograms, bar charts, pie charts Averages from lists (mean, median, mode, range) Probability basics (coins, dice, spinners)	Simplifying ratios, sharing amounts Scale drawings (integer scale factors) Straight lines (Horizontal, Vertical) Reflections, rotations, translations Enlargement (integer scale)	Fractions, decimals, percentages equivalence, Percentage of amounts, Problem-solving with money & measures, End-of-year mixed-topic review
	Extension FDP Problems Word problems with decimals HCF and LCM with Venn diagrams.	Extension Two step with different operations. Sequences with negatives	Extension Word problems Different forms of measurement	Extension Application Word Problems	Extension Ratios with 3 parts Enlargement, scale factors with decimals.	
YEAR 7 & 8 ROUTE B	Negative numbers (order, add/subtract/multiply/divide) Powers & roots, laws of indices Standard form introduction Estimation with bounds	Expanding single brackets Factorising simple expressions Solving multi-step equations (incl. with negatives/fractions) Inequalities (solve & represent) nth term of a linear sequence	Circles: area & circumference Area of compound shapes Angles in polygons (interior & exterior) Constructions & loci (basic compass use)	Averages from frequency tables Two-way tables Venn diagrams & probability with sets Sample space diagrams	Direct proportion problems (recipes, maps, scaling) Compound measures (speed, density, pressure) Enlargement, Transformations	Reverse percentages Percentage change (profit, loss, simple interest) Mixed-topic problem solving & investigations Consolidation
	Extension Standard Form Negative Indices	Extension Expanding double brackets Inequalities with diagrams	Extension Exploring connections	Extension Application	Extension Combined Transformations	Extension
YEAR 9 & 10 ROUTE A	Place value, rounding & estimation Four operations with decimals & negatives Fractions, decimals, percentages fluency Simplifying expressions, expanding a single bracket, Solving one-step and two-step equations	Ratio in simplest form & sharing quantities Direct proportion (recipes, scaling, maps) Fractions, decimals, percentages conversions Percentage of amounts & percentage increase/decrease	Perimeter, area of rectangles, triangles, parallelograms, trapezia Volume of cuboids & prisms Angle rules (on a line, at a point, in triangles & quadrilaterals) Symmetry & basic constructions	Collecting & presenting data: bar charts, pie charts, pictograms Averages from a list (mean, median, mode, range) Probability basics (fractions, simple experiments, relative frequency) Probability scale (0–1)	Substitution into expressions & formulae Sequences (term-to-term, nth term of linear) Solving equations with brackets Straight-line graphs (plotting, gradient & intercept)	Proportion & ratio word problems Percentages in context (money, best buys) Mixed-topic problem solving. End of year GCSE style questions
	Extension Word problems	Extension Sharing ratio in 3 parts	Extension Arc length/ Sector area	Extension Frequency Density	Extension Quadratic Sequences	Extension Circle Theorems

YEAR GROUPS	TERM 1A	TERM 1B	TERM 2A	TERM 2B	TERM 3A	TERM 3B
	<p>Surds Expanding single brackets with negatives Expanding double brackets</p>	<p>Compound interest Exponential growth/decay Inverse proportion Standard form</p>	<p>Interior/Exterior Polygon angles</p>	<p>Cumulative frequency Skewness Mean from grouped tables Mutually exclusive/independence Set notation Tree diagrams without replacement</p>	<p>Quadratics with coefficient >1 Simultaneous equations (linear + Quadratic)</p>	
YEAR 9 & 10 ROUTE B	<p>HCF & LCM, product of primes Standard form introduction Rounding to significant figures Using calculators effectively</p>	<p>Expanding double brackets Factorising simple quadratics Solving linear inequalities (represent on number line) Rearranging simple formulae</p>	<p>Circles: area & circumference Surface area & volume of prisms, cylinders, pyramids, cones (formula given) Pythagoras' theorem (right-angled triangles) SOH CAH TOA Transformations (reflections, rotations, translations, enlargements)</p>	<p>Averages from frequency tables Two-way tables Scatter graphs (correlation, line of best fit) Probability from tables, Venn diagrams & simple tree diagrams</p>	<p>Solving equations with unknowns on both sides Simultaneous equations Quadratic graphs (plotting, solving) Real-life graphs (conversion, distance-time, speed graphs)</p>	<p>Ratio & proportion problem solving Percentages & interest problems (non-compound) Geometry and algebra mixed review End-of-year GCSE style practice questions</p>
	<p>Extension Surds Standard form with operations</p>	<p>Extension Sketch and shade inequalities Quadratic Inequalities Quadratics with coefficient >1</p>	<p>Extension Negative Enlargements Area of a sector/arc Bearings Circle Theorems</p>	<p>Extension Conditional Probability</p>	<p>Extension Simultaneous equations (linear + Quadratic)</p>	<p>Extension Compound interest problems Inverse proportion, proportion problems Capture-Recapture</p>
YEAR 11	<p>Area & perimeter (rectangles, triangles, trapezia, circles) Surface area & volume (prisms, cylinders, cones, pyramids, spheres – formula given) Angles (lines, triangles, polygons, parallel lines) including SOH CAH TOA Pythagoras' theorem (right-angled triangles) Transformations (reflection, rotation, enlargement, translation)</p>	<p>Place value, rounding (DP, SF, error intervals) Fractions, decimals, percentages conversions Percentage problems (increase, decrease, reverse, best buys) Ratio and proportion in context (recipes, maps, direct proportion) Standard form basics</p>	<p>Simplifying expressions, substitution Solving equations (one/two-step, brackets, unknowns both sides) Inequalities (representing on number lines) Sequences (linear nth term, generate terms) Straight-line graphs ($y = mx + c$, gradients, intercepts) Simultaneous equations, Quadratic equations</p>	<p>Collecting & presenting data (bar charts, pie charts, scatter graphs, histograms – intro only) Averages from lists and frequency tables Probability basics (fractions, experimental, sample space) Venn diagrams (basic set notation) Tree diagrams</p>		
	<p>Extension Arc length/ Sector area Interior/Exterior Polygon angles Sine rule Cosine rule Enlargement- negative Combined transformations Bearings</p>	<p>Extension Surds Recurring Fractions Compound interest Growth/Decay Models Indirect Proportion Reciprocal Curves Fractions with Ratios Standard form</p>	<p>Extension Negative numbers and powers Quadratics with coefficient >1 Simultaneous equations (linear + Quadratic) Sketch and shade inequalities Quadratic Sequences Sketch and shade inequalities Quadratic Sequences</p>	<p>Extension Frequency Density Cumulative frequency Skewness Mean from grouped tables Mutually exclusive/independence Set notation Tree diagrams without replacement</p>		