



MATHS

Plans for the KS3 Curriculum

In Mathematics, a broad and progressive curriculum is delivered across all year groups. In Year 7, pupils are placed into four sets; in Year 8 and year 9, our cohort is organised into five sets. The table below provides an overview of the core knowledge and skills taught each half term. However, a more detailed breakdown of topics for each set could vary.

Year Group	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
7	Number skills, algebra introduction, rounding, and indices.	Shape with polygons, 3D solids, circles, substitution, sequences, measurement, and conversions.	Fractions, percentages, prime factorisation, HCF/LCM, formulae rearrangement, and algebraic reasoning.	Angles in shapes, probability with outcomes and tables, reasoning about shape and data.	Coordinates, symmetry, straight-line graphs, and transformations (reflections, translations, rotations).	Data handling, ratio and proportion, constructions, and introduction to Pythagoras.
8	Number work with decimals, indices, expanding brackets, solving equations, and directed numbers.	Fractions, percentages, ratio, sequences, and growth/decay contexts.	Area and volume of shapes, factorisation, rearranging formulae, and geometry-algebra links.	Angles, polygons, probability (Venn diagrams, tree diagrams, sample spaces).	Graphs (straight lines, real-life, simultaneous equations), transformations, and symmetry.	Data with frequency, box plots, scatter graphs, pie charts, constructions, loci, and compound measures.
9	Number revision (bounds, estimation), quadratic equations, simultaneous equations, and fractions.	Shape, ratio, circle theorems, similarity, data handling, and proportion scaling.	Percentages (compound, reverse), rearranging formulae, functional problems, and Pythagoras.	Geometry with prisms, cones, frustums, probability (tree, conditional, Venn), surds, and standard form.	Transformations, bearings, trigonometry (SOHCAHTOA, sine/cosine rules, exact values), inequalities.	Real-life graphs, loci, constructions, quadratic/cubic/reciprocal graphs, and exam review.