



MATHEMATICS: Curriculum Overview

Year 11

Half Term	Topic studied	What will I learn?	How will I be assessed?
Year 11 Autumn 1	<i>Upper and middle sets</i> Inequalities, cumulative frequency, brackets, enlargements <i>Lower sets</i> Surveys, transformations, Pythagoras, quadratics, means, scatter graphs.	Regions on a graph, median and quartiles from a curve, 2 bracket expansion, all scale factors. Solving triangle problems, factorising quadratics, solving equations, means from a table, lines on a scatter graph.	Test in penultimate week of October HT. <i>(plus marking of exercise books throughout the term)</i>
Year 11 Autumn 2	<i>Upper and middle sets</i> Simultaneous equations, standard form, similarity. <i>Lower sets</i> Inequalities, compound measures, loci	Linear and nonlinear graph and algebra solutions, comparing values, scale factors in all 3 dimensions. Using a number line, solving inequalities, using density and speed, drawing with compasses.	Mock Exam in Hall in the week before Xmas break. <i>(plus marking of exercise books throughout the term)</i>
Year 11 Spring 1	<i>Upper and middle sets</i> Revision, Circle Theorems, quadratics, trigonometry. <i>Lower sets</i> Revision, Standard form, indices, sequences, prisms.	all angle rules, solving quadratics by formula, completing the square, sine and cosine rules. Use of index rules, negative index for std form, quadratic nth terms, volumes.	2nd Mock Exam in classroom this half term. <i>(Marking of exercise books throughout the term)</i>
Year 11 Spring 2	<i>Upper and middle sets</i> Rearranging formulae, moving averages, 3D, histograms, vectors <i>Lower sets</i> Fractions, similarity, trigonometry, proportion, frequency trees	Manipulation in algebra, use of average to see trend line, all volumes, frequency density problems, 2D vector notation All functions with mixed numbers, use of sin/ cos/tan, direct and indirect, tree diagrams	No formal tests <i>(plus marking of exercise books throughout the term)</i>
Year 11 Summer 1	<i>Upper and middle sets</i> Revision and practice papers <i>Lower sets</i> Revision and practice papers	4 practice papers 4 practice papers	GCSE exams; non-calculator, followed by 2 calculator papers