



Year 10 HIGHER						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Content: What will students know	Calculations, checking and rounding Indices, roots, reciprocals and hierarchy of operations Factors, multiples, primes, standard form and surds Algebra: the basics, setting up, rearranging and solving equations	Sequences Averages and range Representing and interpreting data and scatter graphs Fractions and percentages	Ratio and proportion Polygons, angles and parallel lines Pythagoras' Theorem and trigonometry Graphs: the basics and real-life graphs	Linear graphs and coordinate geometry Quadratic, cubic and other graphs Perimeter, area and circles 3D forms and volume, cylinders, cones and spheres	Accuracy and bounds Transformations Constructions, loci and bearings Solving quadratic and simultaneous equations	Inequalities Probability Multiplicative reasoning Similarity and congruence in 2D and 3D
Skills: What will students be able to do	Construct and present mathematical arguments through appropriate use of diagrams; sketching graphs; logical deduction; precise statements involving correct use of symbols and connecting language, including: constant, coefficient, expression, equation, function, identity, index, term, variable.					
Other: Literacy/Numeracy/ Ethos	Further Mathematical vocabulary is introduced and assessed through the year					
Assessment:	Half-termly test	Half-termly test	Half-termly test	Half-termly test	EOY exam	Half-termly test



Year 11 HIGHER						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Content: What will students know	Graphs of trigonometric functions Further trigonometry Collecting data Cumulative frequency, box plots and histograms	Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics Circle theorems Circle geometry	Changing the subject of formulae (more complex) Algebraic fractions, solving equations arising from algebraic fractions Rationalising surds, Proof	Vectors and geometric proof Reciprocal and exponential graphs Gradient and area under graphs Direct and inverse proportion	Remaining content based upon setting	Exam technique
Skills: What will students be able to do	Understand and use mathematical language and syntax as set out in the content. Understand and use language and symbols associated with set theory, as set out in the content. Apply to solutions of inequalities and probability.					
Other: Literacy/Numeracy/ Ethos	Mathematical vocabulary is introduced and assessed through the year					
Assessment:	Half-termly test	Half-termly test	Half-termly test	Mock Exam	Half-termly test	External Exams