

Higher	Unit	Sub-unit
Unit 1	Powers, decimals, HCF and LCM, positive and negative, roots, rounding, reciprocals, standard form, indices and surds	1a. Calculations, checking and rounding
		1b. Indices, roots, reciprocals and hierarchy of operations
		1c. Factors, multiples, primes, standard form and surds
Unit 2	Expressions, substituting into simple formulae, expanding and factorising, equations, sequences and inequalities, simple proof	2a. Algebra: the basics, setting up, rearranging and solving equations
		2b. Sequences
Unit 3	Averages and range, collecting data, representing data	3a. Averages and range
		3b. Representing and interpreting data and scatter graphs
Unit 4	Fractions, percentages, ratio and proportion	4a. Fractions and percentages
		4b. Ratio and proportion
Unit 5	Angles, polygons, parallel lines; Right-angled triangles: Pythagoras and trigonometry	5a. Polygons, angles and parallel lines
		5b. Pythagoras' Theorem and trigonometry
Unit 6	Real-life and algebraic linear graphs, quadratic and cubic graphs, the equation of a circle, plus rates of change and area under graphs made from straight lines	6a. Graphs: the basics and real-life graphs
		6b. Linear graphs and coordinate geometry
		6c. Quadratic, cubic and other graphs
Unit 7	Perimeter, area and volume, plane shapes and prisms, circles, cylinders, spheres, cones; Accuracy and bounds	7a. Perimeter, area and circles
		7b. 3D forms and volume, cylinders, cones and spheres
		7c. Accuracy and bounds
Unit 8	Transformations; Constructions: triangles, nets, plan and elevation, loci, scale drawings and bearings	8a. Transformations
		8b. Constructions, loci and bearings
Unit 9	Algebra: Solving quadratic equations and inequalities, solving simultaneous equations algebraically	9a. Solving quadratic and simultaneous equations
		9b. Inequalities
Unit 10	Probability	
Unit 11	Multiplicative reasoning: direct and inverse proportion, relating to graph form for direct, compound measures, repeated proportional change	
Unit 12	Similarity and congruence in 2D and 3D	
Unit 13	Sine and cosine rules, $\frac{1}{2} ab \sin C$, trigonometry and Pythagoras' Theorem in 3D, trigonometric graphs, and accuracy and bounds	13a. Graphs of trigonometric functions
		13b. Further trigonometry
Unit 14	Statistics and sampling, cumulative frequency and histograms	14a. Collecting data
		14b. Cumulative frequency, box plots and histograms
Unit 15	Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics	
Unit 16	Circle theorems and circle geometry	16a. Circle theorems
		16b. Circle geometry
Unit 17	Changing the subject of formulae (more complex), algebraic fractions, solving equations arising from algebraic fractions, rationalising surds, proof	
Unit 18	Vectors and geometric proof	
Unit 19	Direct and indirect proportion: using statements of proportionality, reciprocal and exponential graphs, rates of change in graphs, functions, transformations of graphs	19a. Reciprocal and exponential graphs; Gradient and area under graphs
		19b. Direct and inverse proportion