	Term 1A	Term 1B	Term 2A	Term 2B	Term 3A	Term 3B
Year 7	Algebraic Thinking - Sequences - Understanding and Using Algebraic Notation - Equality and Equivalence	 Place Value and Proportion Place value and understanding decimals Fractions, decimals and percentages Assessment Point 1 	 Applications of Number Problem solving with addition and subtraction Problem solving with multiplication and division Fractions and percentages of amounts 	Directed Number and Fractional Thinking - Operations and equations with negative numbers - Adding and subtracting fractions	Lines and Angles - Constructing, measuring, and using geometric notation - Developing geometric reasoning Assessment Point 2	 Reasoning with Number Developing number sense Sets and probability Prime number and proof
Year 8	 Proportional Reasoning Ratio and scale Multiplicative change Multiplication and division of fractions 	 Representations Working in the Cartesian plane Representing data Tables and probability 	Algebraic Techniques Brackets, Equations, and inequalities Sequences Indices Assessment Point 1	 Developing Number Fractions and percentages Standard index form Developing number sense 	 Developing Geometry Angles in parallel lines and polygons Area of circles and trapezia Line symmetry and reflection 	Reasoning with Data - The data handling cycle - Measures of Location
Year 9	Number - HCF and LCM - Rounding and Estimating - Indices - Standard form Algebra 1 (Expressions) - - Simplifying Expressions - Expanding and Factorising - Forming expressions - Rearranging formulae	Fractions, decimals and percentages - 4 operations with fractions - Percentage increase/decrease problems - Compound Interest - Recurring Decimals Handling data - Representing Data - Box Plots and Quartiles - Averages - Frequency tables Algebra 2 (Equations and Inequalities) - Linear Equations - Forming equations - Inequalities - Monic quadratic equations Assessment Point 1	Sequences - Linear Sequences - Quadratic sequences - Special sequences - Special sequences Ratio and proportion - - Sharing in a ratio - Combining ratios - Changing ratios - Ratio of a ratio - Direct proportion - Exchange rates and unit conversions - Inverse proportion - Compound proportion	Angles - Angle facts - Angles in parallel lines - Angles in a polygon - Interior and exterior angles - Proof problems Probability - - Experimental and theoretical probabilities - Samples space diagrams and two- way tables - Venn diagrams - Tree diagrams	 Perimeter and Area Area and perimeter of compound Shapes Area and circumference of a circle Coordinate geometry 1 Drawing straight line graphs Gradient and equation of a straight line Parallel and perpendicular lines Solve linear simultaneous equations algebraically and graphically. 	 Volume Volume of cuboids, prisms and cylinders. Functional problems Density and pressure Combined Density
		Assessment Point 1				Synoptic Assessment Point

Year 10 Higher	 Pythagoras' Theorem and Trigonometry Solving problems with Pythagoras Distance between 2 points Trig ratios for right- angled triangle Exact trig values Bearings Transformations Rotations Reflections Enlargements Translations Combined transformations 	Surds - Understanding surds - Operations with surds - Simplifying surds - Rationalising Denominator Algebra 3 (Quadratics) - Quadratic graphs - Solving quadratic equations - Completing the Square - Quadratic Inequalities - Quadratic simultaneous equations	 Probability 2 Independent events Tree Diagrams Conditional Probability Problems involving probability and algebra Handling Data 2 Cumulative frequency diagram Quartiles and box plots from a cumulative frequency diagram Histograms Sampling 	 Perimeter, Area, Volume 2 Volume and Surface Area of spheres, cones, and pyramids. Compound shapes Volume of a frustrum Density and Rates of Flow Similarity Area, Length, Volume scale factors Similar Shapes Synoptic Assessment Point 	 Co-ordinate Geometry 2 Cubic, exponential, and reciprocal graphs. Graph of a circle Equation of a tangent to a circle Draw a tangent to a curve Estimate area under a graph Iteration Direct and Inverse Variation Direct and Inverse variation Griect and Inverse proportional graphs Forming equations for direct and inverse proportion Compound proportion problems 	 Algebra 4 Algebraic Fractions Changing subject of a formula involving fractions Algebraic Proof Functions Understand function notation Composite functions Inverse functions End of year Assessment
Year 10 Foundation	Pythagoras' Theorem and Trigonometry - Solving problems with Pythagoras - Trig ratios for right- angled triangle - Exact trig values Transformations - Rotations - Enlargements - Translations - Combined transformations Translations	 Standard Form and Indices Convert to and from standard form Ordering numbers Multiply, divide, add and subtract numbers in standard form. Algebra 3 (Quadratics) Plot and draw a quadratic graph Identify roots and turning point Expand a product of 2 brackets Factorise and solve a quadratic equation 	 Probability 2 Finding probabilities from a table Relative frequency Independent events Tree Diagrams Handling Data 2 Draw and interpret scatter graph Frequency polygon Mean and median from a frequency table 	 Similarity and Congruency Determine scale factor of 2 similar shapes Calculate missing sides of similar shapes Understand congruency criteria for triangles Synoptic Assessment Point 	 Co-ordinate Geometry 2 Graphs of cubic functions Graphs of reciprocal functions Real life graphs in context Simultaneous equations graphically Vectors Add and subtract column vectors Multiply a vector by a scalar. 	 Loci and Constructions Scale diagrams Plans and elevations Use compasses and protractors Bearings Locus of a point End of year Assessment

Year 11 Higher	 Trigonometry 2 Use Pythagoras and right-angled trigonometry in 3 Dimensions. Recognise graphs of Sine, Cosine, and Tangent. Sine and Cosine rules Area of a triangle Transformations of Graphs Translations of graphs Reflections of graphs 	 Circle Theorems Apply and use circle theorems. Derive proof of circle problems. Vectors Represent vectors diagrammatically Add vectors Multiply by a scalar Geometrical problems with vectors Upper and Lower Bounds Solve problems with upper and lower bounds 	 Proof & Congruency Understand and use SSS, SAS, ASA, RHS conditions. Use congruent criteria to prove geometric results Loci and Constructions Scale drawings Bearings Locus of a point Construct perpendicular bisector Construct angle bisectors 	 Diagnostic teaching Revision Exam technique and preparation 	 Diagnostic teaching Revision Exam technique and preparation 	
			SA ASSESSMENT FEBRUARY			
Year 11 Foundation	 Diagnostic teaching Revision Exam technique and preparation SA ASSESSMENT SEPTEMBER	 Diagnostic teaching Revision Exam technique and preparation 	 Diagnostic teaching Revision Exam technique and preparation 	 Diagnostic teaching Revision Exam technique and preparation 	 Diagnostic teaching Revision Exam technique and preparation 	

In year 7 and 8 students complete pre and post tests for every unit of work, in addition to the calendared assessment points.

In year 9 and 10 students complete a unit assessment at the end of every topic, in addition to the calendared assessment points.

In year 11 students complete 3 weekly GCSE exam papers to inform diagnostic teaching and revision.

In year 12 and 13 students complete a unit assessment at the end of every topic, in addition to the calendared synoptic assessments.

Some students in year 7, 8 and 9 follow a separate support scheme of learning building on their learning from primary school.

	Term 1A	Term 1B	Term 2A	Term 2B	Term 3A	Term 3B
Year 12	Indices and Graphs	Differentiation	Synoptic Assessment January	Vectors	Vectors in Mechanics 1	Correlation and Regression
	Quadratics, equations, and inequalities Algebraic Methods Co-ordinate Geometry	Kinematics Forces 1	Trigonometry Sampling Methods and Large Data set Data presentation and interpretation	Integration Probability	Moments 1 Exponentials and Logarithms	Algebraic Methods Trigonometry (Radians)
Year 13	Trigonometry (Reciprocal Trig Functions) Forces 2 Binomial Distribution and Hypothesis Testing	Functions Projectiles <i>Synoptic Assessment November</i> Series Numerical Methods	Trigonometry (Compound and Double Angle formulae) Integration Parametric Equations	Synoptic Assessment February Vectors in Mechanics 2 Moments 2 Normal Distribution	Proof Diagnostic teaching Revision Exam technique and preparation	
Year 12 Further Maths	Complex Numbers and Argand Diagrams Algorithms, Graphs and Networks Algorithms on Graphs	Matrices and Linear Transformations Momentum and Impulse Elastic collisions in 1 dimensions	Synoptic Assessment January Series Proof by Induction Linear Programming	Vectors Roots of Polynomials	Work, Energy, Power Volumes of Revolution Critical Path Analysis Route Inspection	Synoptic Assessment June
Year 13 Further Maths	Complex Numbers – De Moivre's theorem Simplex Algorithm	Elastic collisions in 2 dimensions Series Synoptic Assessment November Hyperbolic Functions Polar Co-ordinates	Methods in Differential Equations Modelling with Differential Equations Methods in Calculus	Synoptic Assessment February Volumes of Revolution Elastic Strings and Springs Travelling Salesman Problem	Diagnostic teaching Revision Exam technique and preparation	