



MATHEMATICS

KS3 Y7	sequences	Algebraic notation	Equality and equivalence	Place value	Fraction, decimal, percentages	Addition, subtraction	Multiplication and division	Directed numbers	Adding, subtraction fractions.	Construction, measuring and reasoning geometry	Numbers sense, sets and probability	Prime number and proof.
	Progress test			Progress test		Progress test		Progress test		Progress test	Progress test	
KS3 Y8	Powers of 10, rounding, estimation.	Expressions, algebraic fractions, linear equations.	Polygons, circles, 2D shapes.	Factors, multiples, factors, primes, 4 operations of fractions.	Collecting, working with and representing data.	Reflections, rotations, translations, enlargements, scale drawings.	Trial & improvement, algebraic methods, formulae, expressions, Sequences, linear functions, real life graphs.		Fractions, percentages, ratio, mental written and calculator methods,	Constructions, loci, 3D shapes.	Statistical investigation, interpreting, communicating findings, probability, experiments.	Pythagoras, measures, prisms, cylinders.
	Progress test	Progress test	Progress test	Progress test	Progress test	Progress test	Progress test		Progress test	Progress test	Progress test	Progress test
KS4 Y9 Foundation	Integers and place value	Indices, powers and roots; factors, multiples and primes	Algebra: the basics; expanding and factorising single brackets; expressions and substitution into formulae			Tables; charts and graphs; pie charts; scatter graphs		Fractions; fractions, decimals and percentages; percentages		Equations and inequalities, Sequences		
	Progress test	Progress test	Progress test			Progress test		Progress test		Progress test		
	Synoptic test.					Synoptic test.						

KS4 Y9 Higher	Integers and place value Place value, combinations, estimating, HCF and LCM, indices, powers of 10 and standard form, surds	Algebraic indices, expanding and factorising, equations, formulae, linear and non-linear sequences		Averages and range, collecting data, representing data		Fractions, percentages, ratio and proportion		Polygons, angles and parallel lines		Pythagoras' Theorem and trigonometry	
	Progress test	Progress test		Progress test		Progress test		Progress test			
	Synoptic test.			Synoptic test.							
KS4 Y10 Foundation	Properties of shapes, parallel lines and angle facts; interior and exterior angles of polygons	Statistics and sampling; the averages	Perimeter and area; 3D forms and volume		Real-life graphs; straight-line graphs	Transform ations	Ratio; proportion	Right-angle d triangles: Pythagoras and trigonometr y	Probability	Multiplicativ e reasoning	
	Progress test	Progress test	Progress test		Progress test	Progress test	Progress test	Progress test	Progress test	Progress test	
	Synoptic test.			Synoptic test.				Synoptic test.			
KS4 Y10 Higher	Graphs: the basics and real-life graphs; linear graphs and coordinate geometry	Quadratic, cubic and other graphs	Perimeter, area and volume, prisms, circles, cylinders/spheres/cones, accuracy and bounds		Transformati ons; Constructions : triangles, nets, plan and elevation, loci, scale drawings and bearings	Algebra: Solving quadratic equations and inequalitie s, solving simultane ous equations algebraical ly	Probability	Multiplicativ e reasoning: growth and decay, compound measures, ratio and proportion	Similarity and congruence in 2D and 3D	Further trigonometr y, trigonometr y/Pythagora s' in 3D, trig graphs, transformin g graphs, further accuracy	Statistics and sampling, cumulative frequency and histograms
	Progress test	Progress test	Progress test		Progress test	Progress test	Progress test	Progress test	Progress test	Progress test	Progress test
	Synoptic test.					Synoptic test.			Synoptic test.		

KS4 Y11 Foundation	Plans and elevations; construction, loci and bearings	Quadratic equations; expanding, factorising and graphing		Circles, cylinders, cones and spheres	Fractions and reciprocals; indices and standard form.	Similarity and congruence in 2D; vectors.	Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations.		Revision/Mocks etc			
	Progress test	Progress test		Progress test	Progress test	Progress test	Progress test					
	Synoptic test.				Synoptic test.							
KS4 Y11 Higher	Quadratics, expanding cubics, sketching graphs, graphs of circles, cubes and quadratics		Circle theorems and circle geometry	Rearranging formulae, algebraic fractions, equations with algebraic fractions, rationalising surds, proof		Vectors and geometric proof	Direct and inverse proportion, exponential functions, non-linear graphs, transforming graphs		Revision/Mocks etc			
	Progress test		Progress test	Progress test		Progress test	Progress test					
	Synoptic test.					Synoptic test.						
KS5 Y12 Term 1	Problem Solving	Quadratic functions	Equations and Inequalities	Surds and Indices	Trigonometry	Graphs and Transformation	Polynomials (AS)	Vectors (AS)	Vectors (AS)	Kinematics (AS)	Coordinate geometry (AS)	Exponentials and logarithms (AS)
	HW Assessment	HW Assessment	HW Assessment	HW Assessment	HW Assessment	HW Assessment	HW Assessment	HW Assessment	HW Assessment	HW Assessment	HW Assessment	HW Assessment
	End of HT Test						End of HT Test					

KS5 Y12 Term 2	Forces and Newton's laws of motion (AS)	Differentiation (AS)	Data collection (AS)	Data processing, presentation and interpretation (AS)	Probability (AS)		Integration	Variable Acceleration (AS)	The binomial distribution (AS)	Statistical hypothesis testing using the binomial distribution (AS)		
	End of HT Test					End of Half Term Test						
KS5 Y12 Term 3	Revision for End of Year Exam	End of Year Exam & detailed feedback time	Large Data Set Project	Begin Y13 POS - Mechanics - Kinematics, Projectiles, Forces, Friction								

	End of HT Test							End of HT Test				
KS5 Y13 Term 2	Probability	Statistical Distributions	Statistical Hypothesis Testing	Parametric Equations	Vectors	Numerical Methods	Revision of AS Work					

	End of HT Test	
KS5 Y13 term 3	Revision for A Level work	Exam Period