Year 11

In year 11 the stream students follow will be finalised in January after the first mock examination. Students will sit two mocks exams the first in December and then later in March to give you the most up to date information regards their current and predicted attainment. Schemes of learning for the five year scheme finish at the end of Autumn two to allow teachers to take additional time if required to aid student understanding and so that we can undertake a full revision schedule

Foundation Stream

Unit Detail	Autumn 1	Autumn 2				
Title	Algebra 1	Multiplicative and Geometrical R		Revision Block 1	Revision Block 3	Revision Block 5
STREAM	Foundation (3,4,5)	Foundation (3,4,5)		Foundation (3,4,5)	Foundation (3,4,5)	Foundation (3,4,5)
Content A	Expand a single bracket and a bionomial	Review scale and enlargement		Arithmatic with numbers and decimals	Angle facts	
	Factorise a single bracket	Work with direct and inverse proportion		Place value	Angles in parallel lines	Fractions (All work)
	Factorise a quadratic of the form y=x2+bx+c	Calculate with pressure and density		Rounding	angles in polygons	Percentages (All)
	Solve quadratic equations	Determine whether a problem requires additve or multiplicative reasoning	Revision SOW - principle to cover as much of GCSE content again. Use mock data to decide which of topics are a priorty for your class At end of unit assess using GCSE questions then set consolidation practice work to improve units can be moved around depending on group needs	Estimation	bearings	Ratio (All)
	plot and read from quadratic curves	Review angle facts - Focus on the language of reasoing and chains of reasoning		Order of operations	Transformations	Proportion (All)
	Understand and find roots	Review Pythagoras theorem		Factors/multiples/LCM/HCF and prime factor decomposition	Congruency and similarity	
	Simplfy compex algebraic expressions including algebraic fractions	Review trigonometric ratio's		Error intervals	Compound measures	
	Find inputs and outputs			Indices	Plans and elevations	
				Standard form	Constructions and Loci	
Title	Algebra 2	Algebraic reasoning		Revision Block 2	Revision Block 4	Revision Block 6
Content B	Review solving linear equations	Work with complex indices		Writing expressions	Frequency trees	Perimeter
	Change the subject of a formula Including perimeter, area	Review simplification of complex expressions		Collecting like terms	Tables and charts	Area
	Find and use equations of straight lines	Finidng the nth term		Expanding and factorising (upto Quads)	probability	Surface area
	Find the equation of a line through two points	Justify e.g. why a number is/isnt in a sequence		Forming and solving equations	scatter graphs	Volume
	Plot cubic and reciprocal graphs	Illustrate algebraic equivalence		Inequalities	Stem and leaf	Circles
	Identify equations of parallel lines			Change the subject	averages	Pythagoras
				Simultaneous equations	Venn diagrams	Trigonometry
				graphs - plotting and using	tree diagrams	
				Sequences	Time series graphs	

Higher Stream

Unit Detail	Autumn 1	Autumn 2				
Title	Algebra 1	Reasoning		Revision Block 1	Revision Block 3	Revision Block 5
STREAM	Higher (1,2)	Higher (1,2)		Higher (1,2)	Higher (1,2)	Higher (1,2)
Content A	Expand brackets upto triple brackets	Review scale and enlargement		Fractions (All)	Angles in parallels	Algebraic fractions
	Factorise a single bracket	Work with direct and inverse proportion		Percentages (All)	Bearings	Change the subject
	Factorise a quadratic of the form y=x2+bx+c	Calculate with pressure and density		Ratio (All)	Angles in polygons	Inequalities (upto quadratics)
	Solve quadratic equations	Understand and use trigonometric graphs		Proportion	Construction and loci	Simultaneous equations
	plot and read from quadratic curves	Construct formal geometric proofs		Indices	Pythagoras (3D)	Equation of a circle
	Understand and find roots	circle theorems		Bounds	Trigonometry (2D,3D and exact values	Equation of a tangent
	Use the quadratic equation			surds	Circle theorems	Area under a graph
	Complete a square and solve, find min point			Recurring decimals	rigonometry in non right angle triangl	Functions
	Use iterative methods					Iteration
				Product rules	Similarity and congreunce	Proof
Title	Algebra 2	Algebraic reasoning		Revision Block 2	Revision Block 4	Revision Block 6
Content B	Use function notation	Work with complex indices including fractional		Expanding brackets (1,2,3)	Tables and charts	Areas
	Work with composite and inverse functions	Solve problems with variation in powers		Factorising	Frequency polygons	Surface area
	Change the subject of a formula	Construct formal algebraic proofs		Sequences (upto Quadratics)	cumulative frequency and box plots	volume
	Change the subject of a formula that appear more	Sketch translations and reflections of graphs		Equations (Upto Quadratics)	Scatter graphs	Arc length and sector area
	Understand and use exponential graphs			Graphs (upto Perpindiculars)	Histograms	Segment area
	Understand and use equations of perpindicular lines			Quadratic formula	Capture/recapture	Vectors
	find the equation of a tangent to a curve			Complete the square	Venn diagrams	Compound units
	Revisit area under a curve			Graphs - Exponenitels. trig, cubic	Probability trees	
				Transformation of graphs	conditional probability	

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At end of unit assess using GCSE questions then set consolidation practice work to improve

units can be moved around depending on group needs

In year 11 there is a higher degree of independent learning required for students to achieve the highest grades. To help them in this process we set a GCSE maths paper each week for homework which can be completed using either method maths or on paper whichever students prefer. We offer clinics during the school day to help students complete these if they need teacher assistance