

Maths Year 11 Foundation Tier Curriculum End Points and key vocabulary

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Unit of Work	 Functions Linear graphs and sequences Properties of number Probability, systematic listing and product rule 	 Inequalities Direct and inverse proportion Curves and graphs Constructions and loci 	 Simultaneous equations Vectors 	• Transformations	Revision and recap	Exams
Ethos Links	STEM – use of linear graphs within science	STEM – Curves and graphs used to demonstrate exponential growth within bacteria STEM and Sustainability – constructions and loci used within relation to landscape planning and gardening. Also used in relation to security cameras.	Sustainability - simultaneous equations can model the balance between energy supply and demand from renewable sources	STEM – use of enlargement in scale models		

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Knowledge	By the end of this unit	By the end of this	By the end of this unit	By the end of this unit	By the end of this	By the end of this
	students will know	unit students will	students will know and	students will know and	unit students will	unit students will
	and understand:	know and	understand:	understand:	know and	know and
	Functions	understand:			understand:	understand:
		In a suplition	Cincultanaaua	Tuanafaumatiana	Davisian and reser	
	By the end of this unit	Inequalities	Simultaneous	Transformations	Revision and recap	
	students will know	By the end of this	equations	By the end of this unit	on all content in	
	and understand:	unit students will	By the end of this unit	students will know and	preparation for	
	How to	know and	students will know and	understand:	exams	
	interpret	understand:	understand:	How to		
	function	How to solve	How to solve	transform		
	notation	linear	simultaneous	shapes and		
	• Use	inequalities	equations	recognise a		
	substitution to	How to	How to form	combination of		
	evaluate	represent	simultaneous	transformations		
	functions	inequalities	equations and			
	Find the	on a number	solve			
	numerical	line				
	value of		Vectors	Revision and recap		
	composite		By the end of this unit			
	functions	Direct and inverse	students will know and			
		proportion	understand:			
	Linear graphs and	By the end of this	 Addition and 			
	sequences	unit students will	subtraction of			
	By the end of this unit	know and	vectors			
	students will know	understand:	 Multiplication 			
	and understand:	 Direct and 	of vectors by a			
	Common	inverse	scalar			
	sequences	proportions	Vectors			
	including	 Equations 	represented on			
	geometric	that describe	a diagram			
	progression	direct and				
	 Fibonacci 	inverse				
	sequences and	proportion				
	be able to					

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apply and use	 Graphs that 			
them	represent			
How to deduce	direct and			
the nth term of	inverse			
linear	proportion			
sequences				
 How to plot 	Curves and graphs			
straight line	By the end of this			
graphs	unit students will			
 Parallel lines 	know and			
and how to	understand:			
identify them	 Cubic graphs 			
	and how to			
	sketch them			
Properties of number	 Reciprocal 			
By the end of this unit	graphs and			
students will know	how to sketch			
and understand:	them			
How to				
calculate	Constructions and			
highest	loci			
common factor	By the end of this			
and lowest	unit students will			
common	know and			
multiple	understand:			
 How to identify 	How to			
and interpret	construct			
prime factors	angle			
 Square and 	bisectors and			
cube numbers	perpendicular			
and how to	bisectors			
recognise	How to			
them	construct a			
	perpendicular			
	to a given line			

Probability, systematic listing and the product rule By the end of this unit students will know and understand: • Probability and the outcome of probability experiments • Frequency trees and how to complete them • Relative frequency • Mutually exclusive events • Set notation of Venn diagrams • How to apply systematic listing strategies • The product rule for counting	from a given point How to solve loci problems That the perpendicular distance from a point to a line is the shortest distance to the line				
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Key	Function	Inequality	Simultaneous	Enlarge	
Vocabulary	Substitute	Greater than	Vector	Reflect	
	Composite	Less than	Scalar	Rotate	
	Sequence	Proportion		Translate	
	Arithmetic	Direct		Describe fully	
	Linear	Inverse		Invariance	
	Parallel	Cubic			
	Frequency trees	Reciprocal			
	Likelihood	Exponential			
	Venn diagram	Bisector			
	Product rule	Locus			
	Relative frequency				