

	Autumn 1a	Autumn 1b	Spring 2a	Spring 2b	Summer 3a	Summer 3b
CONTENT	Sequences	Circle theorems	Algebraic			
			proportion	Revision	Revision / Public	Revision / Public
Declarative / core /	Quadratic graphs	Vector geometry			exams	exams
powerful			Quadratic formula			
Knowledge – 'Know	Equations of lines	<b>Equations of circles</b>				
What'			Quadratic			
	Regions		simultaneous			
	_		equations			
	Estimating					
	gradients of		Graphs of			
	curves/area under		trigonometric			
	curves		functions			
			Graph			
			transformations			
			Quadratic			
			inequalities			
Intent	These topics are	These topics cover	The year 11			
	taught together to	the final areas of	curriculum finishes			
	help make links	geometry yet to be	off with the most			
	with sequences	covered. Students	challenging areas			
	and graphs. Here,	have already	of GCSE maths.			
	students extend	covered	Where students			
	their	congruence and	are not necessarily			
	understanding of	other equations in	aiming for the			
	shapes of graphs	year 10, which will	highest grades,			
	ready to have an	help with the	some of these			
	appreciation of	understanding of	topics could be			
		these topics.	interchanged with			



	transformed		additional revision			
	graphs in Spring 2		time.			
Skills	Students need to	Students need to	Students need to	Students will spend	Students will spend	Students will spend
	be able to:	be able to:	be able to:	this half term	this half term	this half term
Procedural				targeting key skills	targeting key skills	targeting key skills
Knowledge – 'Know	Find missing terms	Use circle theorems	Solve problems	and strengthening	and strengthening	and strengthening
How'	of Fibonacci,	to solve problems	using algebraic	weak areas	weak areas	weak areas
	geometric and		direct/inverse			
	quadratic style	Add and subtract	proportion			
	sequences	vectors				
			Use the quadratic			
	Find the position to	Find scalar	formula to solve			
	term rule of a	multiples of vectors	quadratics			
	quadratic sequence					
		Form vector	Sketch graphs of			
		expressions	trigonometric			
			functions			
		Form complex				
		proofs using	Sketch graphs			
		vectors	which have been			
			translated or			
		Solve problems	stretched in the y			
		using equations of	or x axis			
		circles				
			Recognise			
			equations of			
			transformed			
			graphs			
<b>Key Questions</b>	What shape are we	What lines can you	Which rules for			
	expecting for this	highlight to help	graph			
	graph?	see which theorem	transformations			
		to use?	were intuitive?			



	What is the equation of a line perpendicular to this one (through any point)	How can you categorise the theorems to help recognise them?	Which rules for graph transformations were not intuitive?		
	Can you give another				
Assessment	Students will be assessed on a Diagnostic quiz at	Students will be assessed on a Diagnostic quiz at	Students will be assessed on a Diagnostic quiz at		
	the end of each unit and a retest to	the end of each unit and a retest to	the end of each unit and a retest to		
	improve any gaps in learning.	improve any gaps in learning.	improve any gaps in learning.		
	written exam questions taken from GCSE papers	A half termly assessment will be completed in class covering content	A half termly assessment will be completed in class covering content		
		covering content covered this half term, and previous topics covered at	covering content covered this half term, and previous topics covered at		
		St. Mary's written exam	St. Mary's written exam		
		questions taken from GCSE papers	questions taken from GCSE papers		



Links to	STEM, Graphic	Engineering,		
careers/wider	design,	product design,		
world		STEM		