KEVICC Key Stage 4 Curriculum Subject: Mathematics						Key Vocabulary and notation.	
Autumn Half-Term						Linkest	
	Term: \	/ear 9 Autumn Term – Block Three	Multiples	Hignest			
	What is	s the essential knowledge from this u	Integer	Common			
	What c	lo students need to remember and u	Paciol	Fucioi			
	Supplier content			Divisible	Multiple		
		specification content		specification notes	Torm	Broduct	
	G1 Use conventional terms and notations:			Eactorico	Lowest		
		points, lines, vertices, edges, planes, parallel lines, perpendicular lines, right angles, polygons, regular			Divisor	Common	
		polygons, and polygons with reflection and/or rotation			Multiple	Multiple	
	symmetries				Prime	Prime Factor	
		to the sides and angles of triangles		number	Union		
	Draw diagrams from written descriptions		otions	15			
	Students should be able to:				Even	Conjecture	
	• (	distinguish between acute, obtuse, reflex and right angles			Digit	Explain	
	• 1	name angles use one lower-case letter or three up	sent an angle, for example x or	Number	Relationship		
	,	ABC		Relationship	True		
	• 1	understand and araw lines that are pe understand that two lines that are pe	each other	Investigate	False		
	identify lines that are perpendicular					Proof	
	• •	use geometrical language		Number	Demonstration		
	•	use letters to identify points and lines			Expression	Always	
	• 1	ecognise reflection symmetry of 2D	, b, c and b go droond in order	Common	Systematic		
	• •	understand line symmetry	ordiaaram		Factor	Never	
	• (	draw lines of symmetry on a shape o		Factorising	Sometimes		
	<ul> <li>draw or complete a diagram with a given number of lines of symmetry</li> <li>recognise rotational symmetry of 2D shapes</li> <li>identify the order of rotational symmetry on a shape or diagram draw or complete a diagram</li> </ul>			Factorise	Assumption		
	Ň	with rotational symmetry				should be designed to unpick	
	G3	Apply the properties of:	colloquial terms such as Z	the structure of	the maths and		
		angles at a point	line	angles are not acceptable	understanding.	When students	
		<ul> <li>angles at a point of a straight</li> <li>vertically opposite angles</li> </ul>	y opposite angles			talk about mathematical	
		Understand and use alternate and		the vital mathe	matical		
		on paraller lines			language that helps them		
	Students should be able to:						
	• •	<ul> <li>work out the size of missing angles at a point</li> <li>work out the size of missing angles at a point on a straight line</li> </ul>				Students are expected and	
	•	know that vertically opposite angles		during all discussions, verbal			
	• •	estimate the size of an angle in degr ustify an answer with explanations su	ees uch as 'anales on a straia	ht line', etc.	feedback and in written		
	• 1	<ul> <li>understand and use the angle properties of parallel lines</li> </ul>					
	• 1	ecall and use the terms alternate ar work out missina anales usina proper	igles and corresponding ties of alternate anales, c	angles corresponding angles and			
	i	interior angles					
	<ul> <li>understand the consequent properties of parallelograms</li> <li>understand the proof that the angle sum of a triangle is 180°</li> <li>understand the proof that the exterior angle of a triangle is equal to the sum of the interior</li> </ul>						
	• 1	use angle properties of equilateral, isosceles and right-angled triangles					
	•	use the fact that the angle sum of a					
	• 1	ecognise and name regular polygons: pentagons, hexagons, octagons and decagons					
	•	use the angle sum of irregular polygo	if irregular polygons ne angles of regular polygons				
	•	use the fact that the sum of the inter	oolygon is 180(n – 2)				
	•	use the fact that the sum of the exte	e fact that the sum of the exterior angles of any polygon is 360° ne relationship - interior angle + exterior angle = 180°				
	•	use the sum of the interior angles of a triangle to deduce the sum of the interior angles of any polygon.					
	I						

What prior learning supports understanding of this content?	How does this content link to future learning?				
<ul> <li>Measure a line segment in mm and cm.</li> </ul>	• Review and extend key stage 3 coverage of Angles and work				
Estimate the size of an angle.	on metric units.				
<ul> <li>Identify and name 2D shapes.</li> </ul>	Chains of reasoning to find angles.				
Recognise right angles, angles at a point and angles on a	Scale drawings and Bearings.				
straight line.	Interpret and use bearings.				
Calculate missing angles on a straight line, at a point and in a	Understand and use scale factors				
triangle.	Scale diagrams and maps.				
Use interior angle facts for triangles and quadrilaterals.					
Reading: Where in the unit are students supported to read	Writing: Independent writing tasks and how they are structured				
complex academic text?	• Using the correct subject specific terminology for numbers and				
Reading and understanding mathematical questions and	symbols – examination papers, class books.				
problems' – teacher input.	Responding to questions that ask for an explanation or a				
Decoding complex examination questions - explain what	reason – examination papers, class books.				
they are asking the student to do' – teacher input.	• Self-evaluation, reviewing, reflecting and analysis of own work				
Following instructions to solve problems - break down the	<ul> <li>class books, personalised learning checklists and analysis.</li> </ul>				
tasks – teacher input.	Creating notes that can be used later for revision purposes -				
Recognising terminology, numbers, and symbols.	class books, revision cards, mind maps etc.				
Key assessments:					

## How will do students review the information learned?

## How will feedback be seen?

Marked end of block, term assessments and mock examinations. Personalised learning checklists for all assessments identifying strengths and areas of development. Written teacher feedback and marking in compliance with faculty and College Marking Policies. Student responses to marking. Students self-mark using purple pen. Verbal feedback given every lesson from teacher and peers as a perportate. Teacher and student self-