KEVICC Key Stage 4 Curriculum Subject: Mathematics					Key Vocabula	Key Vocabulary and notation.	
Summer Half-Term					Parallal Lina		
Term: Year 10 Summer Term – Block Two Topic: The Equation of a Straight Line What is the essential knowledge from this unit? What do students need to remember and understand?					Parallel Line Horizontal Point		
					Vertical	Coordinates	
iiai a	o stouchis ficeu to remen	ber and onders			Straight line	Substitute	
	Specification content	Specification	notes		Axis	Satisfies	
A9	Use the form $y = mx + c$ to identify parallel lines				Equation	Below	
^/	Find the equation of the line through two given points, or through one point with a given gradient				Graph	Above	
					Intercept	Simultaneous	
	gradioin				Linear	Equations	
 Students should be able to: recognise that equations of the form y = mx + c correspond to straight-line graphs in the coordinate plane draw graphs of functions in which y is given explicitly or implicitly in terms of x complete tables of values for straight-line graphs calculate the gradient of a given straight-line given two points or from an equation manipulate the equations of straight lines so that it is possible to tell whether lines are parallel or not 					Table of	Interception	
					values	Solutions	
					Gradient	Perpendiculo	
					y-intercept	Product	
					Parallel	Reciprocal	
 work out the equation of a line, given two points on the line or given one point and the gradient. 				Gradient	Negative		
				Scale	Reciprocal		
A9h	Plot graphs of equations that correspond to straight-line graphs in the coordinate plane; <u>use the form $y = mx + c$ to identify parallel lines</u> and perpendicular lines; <u>find the</u> equation of the line through two given points, or through one point with a given gradien				Slope	Positive	
					Steep Interpret	Negative	
• r • k A10 Stude • r	chow that two lines are particular the equations perpendicular know that the gradients of lidentify and interpret gralgebraically ents should be able to: ecognise that equations accordinate plane with gradwork out the gradient and	should be designed to unpice the structure of the maths and deepen the student's understanding. When student talk about mathematical concepts, they should develope the vital mathematical language that helps them explain their ideas fully. Students are expected and encouraged to use terminoled during all discussions, verbal feedback and in written					
hat n	rior learning supports unde	erstanding of thi	s content?	How does this content link to fu	content.		
Dro De qu Plo Sin	aw a coordinate grid (all fescribe positions on the full vadrants). It coordinates in all four que inplify algebraic expression bstitute numerical values in and solve one-step and	our quadrants). co-ordinate gri vadrants. ss.	d (all four	 Solve linear equations in or those with the unknown or Find approximate solutions brackets. Solve quadratic equations rearrangement) algebraic 	ne unknown algebra to both sides of the e using a graph incl (including those th	equation uding use of at require by completing t	

Using the correct subject specific terminology for numbers and

Self-evaluation, reviewing, reflecting and analysis of own work

- class books, personalised learning checklists and analysis.

Creating notes that can be used later for revision purposes -

Responding to questions that ask for an explanation or a

symbols – examination papers, class books.

reason – examination papers, class books.

class books, revision cards, mind maps etc.

complex academic text?

problems' – teacher input.

tasks – teacher input.

Reading and understanding mathematical questions and

Decoding complex examination questions - explain what

Following instructions to solve problems - break down the

they are asking the student to do' – teacher input.

Recognising terminology, numbers, and symbols.

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 appropriate. Teacher and student self-assessment of presentation of class books will be completed to ensure written work is of high standard and students are achieving their