KEVICC Key Stage 4 Curriculum Subject: Mathematics					Key Vocabulary and notation.	
	Autumn Half-Term				Dll - l	Consulta atom
Term: Year 11 Autumn Term – Block Eight Topic: Equation of a Circle					Parallel	Coordinates
What is the essential knowledge from this unit?					Horizontal	Substitute
What do students need to remember and understand?					Vertical	Satisfies
	Specification content		Specification notes		Straight line	Below
	specification content		specification notes		Axis	Above
A16h	Recognise and use the equation of a circle with centre at				Equation	Simultaneous
	Find the equation of a tangent to a circle at a given point.				Graph	Equations
Student	s should be able to:				Intercept	Interception
• recognise the equation of a circle, centre (0, 0), radius r					Linear	Solutions
 write down the equation of a circle, centre (0, 0) and radius r work out coordinates of points of intersection of a given circle and a given straight line use the fact that the angle between the tangent and radius is 90° to work out the gradient of 					Table of	Perpendicular
					values	Product
a tangent and hence the equation of a tangent at a given point.					Gradient	Negative
					x-intercept	Radius
					y-intercept	Diameter
					Parallel	Circle
					Gradient	Tangent
					Scale	Chord
					Slope	Angle
					Steep	At a given
					Interpret	point
					Intersect	Exact value
					Line	Not drawn
					Point	accurately
lhat prio	r learning supports understanding of this content?		How does this content link to	future	the structure of deepen the structure of deepen the structure of deepen the structure of deepen the structure of the vital mather language that explain their in Students are encouraged to during all discuted back and content.	igned to unpick of the maths and udent's g. When students thematical y should develor ematical t helps them deas fully. expected and o use terminolog ussions, verbal
	ognise that equations of the form $y = mx + c$ corresponds	nd	 Know the difference bet 			
to str Draw impli Com Calc poin Man to te Work	aight-line graphs in the coordinate plane. y graphs of functions in which y is given explicitly or citly in terms of x. uplete tables of values for straight-line graphs. ulate the gradient of a given straight-line given two ts or from an equation. ipulate the equations of straight lines so that it is possik ll whether lines are parallel or not. cout the equation of a line, given two points on the ling yen one point and the gradient.	ble	 Solve linear inequalities in one or two variables and quadratic inequalities in one variable; represent the solution set on a number line, using set notation and on a graph. Know the conventions of an open circle on a number line for strict inequality and a closed circle for an included boundary. Represent the solution set on a number line, using set notation and on a graph. In graphical work the convention of a dashed line for strict inequalities and a solid line for an included inequality will be required. 			
eadina:	Where in the unit are students supported to read		• Writing: Independent writing	tasks c	and how they o	are structured
complex Read prob Deca they Follo	ding and understanding mathematical questions and lems' – teacher input. Toding complex examination questions - explain what are asking the student to do' – teacher input. Wing instructions to solve problems - break down the – teacher input.	 Using the correct subject symbols – examination p Responding to questions reason – examination pc Self-evaluation, reviewin – class books, personalise 	t spec apers that a apers, g, refle	ific terminology, class books. ask for an exploclass books. ecting and and	y for numbers an anation or a alysis of own worl	

tasks – teacher input.

Recognising terminology, numbers, and symbols.

Creating notes that can be used later for revision purposes - 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 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