KEVICC Key Stage 3 Curriculum Subject: Mathematics		Key Vocabulary and notation.	
Summer Half-Term Developing Geor	netry	E o moot di ot	De eterecia
Term: Year 8 Summer Term – Block Two Topic: Area of Trapezia and Circles		Formula	Rectangle
What is the essential knowledge from this unit?		Area	Estimate
What do students need to remember and understand?		Triangle	Infinity
Students following the Higher strand will have met the formulae for	the area of a trapezium in year 7:	Square	Radius
this knowledge is now extended to all students, along with the formula for the area of a circle. A key		Parallelogram	π
aspect of the unit is choosing and using the correct formula for the correct shape, reinforcing		Rhombus	Approximately
recognising the shapes, their properties and names, and looking e	explicitly at compound shapes.	Trapezium	Estimate
National curriculum content covered:		Trapezia	Diameter
Derive and apply formula to calculate and solve problems involving perimeter and area of		Parallel	In terms of π
triangles, parallelograms, trapezia.		Perpendicular	Decimal place
Calculate and solve problems involving perimeters of 2D shapes (including circles), areas of		height	Estimate
circles and composite shapes.		Compound	Calculate
We know that breaking the curriculum down into small manageable steps should help students to		Component	Substitute
understand concepts better. As a result, for each block of content in the scheme of learning we		component	Significant
have provided the following 'small step' breakdown for this unit as follows:		snapes	Significanti fi anno a
Lesson One - Calculate the area of triangles, rectangles and parallelograms		Perpendicular	figures
Lesson Two - Calculate the area of a trapezium		Sector	
Lesson Four - Investigate the area of a circle		Mathematical qu	estioning should
Lesson Five - Calculate the area of a circle and parts of a circle without a calculator		be designed to unpick the	
Lesson Six - Calculate the area of a circle and parts of a circle with a calculator		the student's und	erstandina. When
Lesson Seven - Calculate the perimeter and area of compound shapes (2)		students talk abou	ut mathematical
Interlegiving (Extension of provinus work		concepts, they sh	ould develop the
Revisit forming and solving equations.		helps them explai	n their ideas fully.
Revisit properties of shapes.			at a stand
Revisit equations of straight lines.		encouraged to use terminology	
Perform standard constructions including perpendiculars.		during all discussion	ons, verbal
Understand and use the properties of diagonals of quadrilate	rais.	feedback and in	written content.
What prior learning supports understanding of this content? How does this content link to future learning?			
 Review Year / angle rules. Understand and use parallel lines in angles 	Revisit properties of shapes. Povisit equations of straight lines		
Revisit geometric notation.	 Recognise line symmetry in polygons and other shapes. 		
Workout angles in special quadrilaterals. Eind and use the sum of interior and exterior angles of a	Reflect shapes in horizontal, vertical and diagonal lines		
• Pind did use the soft of interior did exterior digles of d polygon.			
Prove simple geometric facts.			
Reading: Where in the unit are students supported to read	Writing: Independent writing tasks and now they are structured 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 reason – ovamination papers, class backs		
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	in the class books, personalised learning checklists and analysis.		
 tasks – teacher input. Recognising terminology, numbers, and symbols. 	 Creating notes that can be u books, revision cards, mind m 	sed later for revisior	n purposes - class
Recognising patterns and relationships in mathematics.		apt 0.01	
Key assessments:			
End of block assessments.			
End of block assessments provide a quick progress check at the end of each block of learning to make sure students have understood			
A Core paper – it is envisaged that all students will take this paper, to provide a direct comparison with the performance of the rest of the			
cohort. All topics from each term will be covered, and the use of a calculator is expected.			
A Foundation paper – students who are working below national expectations will have the opportunity to show their understanding of the			
material with more straightforward questions. Non calculator paper.			
A Higher paper – students who are working at or above national expectations will have the opportunity to tackle more challenging questions on the same material, plus the extra objectives indicated as "Higher" in our scheme of learning. Non calculator paper			
How will feedback be seen?			
Marked end of block and term assessments. Personalised learning checklists for end of term assessments identifying strengths and groats 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.			
students are achieving their potential.			