KEVICC	Key Stage 4 Curriculum Subject: A	Nathematics		Key Vocabulary	and notation.
Spring Half-Term					
Term: Year 10 Spring Term – Block Three Topic: Introduction to Trigonometry			Pythagoras'	Angle	
What is the essential knowledge from this unit?			Theorem	Lengths	
What do students need to remember and understand?				Formula	Relationship
	Specification content	Specification notes		Right Angle	Trigonometric
	specification content	specification notes		Adjacent	ratio
G20	Know the formulae for: Pythagoras' theorem, $a^2 + b^2 = c^2$, and the trigonometric ratios,			Opposite	Square
	$\sin\theta = \frac{opposite}{hypotenuse}$ $\cos\theta = \frac{adjacent}{hypotenuse}$ $\tan\theta = \frac{opposite}{adjacent}$			Hypotenuse	Square root
				Right Angle	Sum
	, in processes	ny potentase augmente		Triangle	Total
	apply them to find angles and lengths in right-angled triangles in two dimensional figures			Non right-	Substitute
Chualanta abaulal ba albia tau				angle triangle	Expression
Students should be able to: understand, recall, and use Pythagoras' theorem in 2D problems				Formula	Calculate
 understand, recall, and use trigonometric relationships in right-angled triangles use the trigonometric relationships in right-angled triangles to solve problems, including those involving bearings. 				Rearrange	Proof
				Subject	Prove
				Subject of	Surds
R12	Compare lengths using ratio not	ation		formula	Exact value
Students should be able to:				Sine	Simplifying
understand the effect of enlargement on perimeter				Cosine	$\sin \theta \sin^{-1} x$
 understand the effect of enlargement on areas of shapes understand the effect of enlargement on volumes of shapes and solids 				Inverse	$\cos \theta \cos^{-1} x$
compare the areas or volumes of similar shapes				Plane	$\tan \theta \tan^{-1} x$
understand, recall, and use trigonometry ratios in right-angled triangles.				Midpoint	Slope
				Perpendicular	Diagonal
				should be design the structure of the structure of the deepen the student understanding. Very talk about mather concepts, they shall the vital mathem that helps them dideas fully. Students are expended in a during all discussions.	ne maths and ent's Vhen students ematical hould develop natical language explain their ected and use terminology
				feedback and in	
 What prior learning supports understanding of this content? Identify 2-D shapes with 3-D shapes. Understand the language of faces, edges, and vertices. Calculate squares and square roots. Substitute numerical values into formulae and expressions. Identify the hypotenuse of a right-angled triangle. Determine whether a triangle is right-angled. Calculate missing sides in right-angled triangles. Find the surface area of pyramids and composite shapes (review of Year 9) Find the surface area of pyramids and composite solids. Know and apply formulae to calculate area of: Triangles. Parallelograms. Trapezia. 					
Reading: Where in the unit are students supported to read Writing: Independent writing tasks and how they are structured					
 complex academic text? Reading and understanding mathematical questions and problems' – teacher input. Using the correct subject specific terminology for number symbols – examination papers, class books. Responding to questions that ask for an explanation or a 					or numbers and
Deo the	Decoding complex examination questions - explain what they are asking the student to do' – teacher input. Following instructions to solve problems - break down the				
 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?

End of block assessments.

AQA end of block assessments provide a quick progress check at the end of each block of learning to make sure students have understood the content being covered. These are available for both foundation and higher tiers.

End of term/year assessments and mock examinations.

End of term assessments assessing the students' progress towards targets and provide diagnostic information to modify future teaching. End of year 9 and 10 examinations assessing the students' progress towards targets and provide diagnostic information to modify future teaching.

Two mock examinations seasons take place during year 11 using previous years AQA 8300 examination papers. Students to experience the full suite of papers at both Foundation and higher tiers using Non-calculator and Calculator requirements.

All examinations will explore the three examination papers at both foundation and higher tiers using non-calculator and calculator requirements.

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 potential.