KEVICC Key Stage 4 Curriculum Subject: Mathematics				Key Vocabula	Key Vocabulary and notation.	
Autumn Half-Term				Multiples	Highest	
Term: Year 9 Autumn Term – Block Two Topic: Factors and Multiples					Common	
What is the essential knowledge from this unit?				Eactor	Eactor	
What do students need to remember and understand?				Divisible	Common	
				Pomaindor	Multiplo	
	specification content		specification notes	Term	Product	
N4	Use the concepts and vocabulary of prime numbers,		n prime factor decomposition n including product of prime factors written in index form	Feinterine	Product	
factors (divisors), multiples, common factors, cor		on factors, common		Divisor	Common	
	multiples, highest common factor, lowest common multiple, prime factorisation, including using product notation, and the unique factorisation theorem			Divisor	Common	
				Multiple		
			Filme			
N5	N5 Apply systematic listing strategies		including using lists, tables, and		Union	
		diagrams	Udd			
Students should be able to:				Even	Conjecture	
 Identify multiples, factors, and prime numbers from lists of numbers. 				Digit	Explain	
• Write out lists of multiples and factors to identify common multiples or common factors of two or					Relationship	
more integers.				Relationship	Irue	
Write a number as the product of its prime factors and use formal (e.g. using Venn diagrams) and informal methods (e.g. trial and error) for identifying highest common factors (HCE) and				investigate	Faise	
lowest common multiples (LCM).				Square	Proof	
Work out a root of a number from a product of prime factors.				Number	Demonstration	
Identify all permutations and combinations and represent them in a variety of formats.				Expression	Always	
				Common	Systematic	
				Factor	Never	
				Factorising	Sometimes	
				Factorise	Assumption	
				should be designed to unpick the structure of the maths and deepen the student's understanding. When students talk about mathematical concepts, they should develop the vital mathematical language that helps them explain their ideas fully. Students are expected and encouraged to use terminology		
				during all discu feedback and content.	ussions, verbal in written	
What • R	prior learning supports understandin	g of this content? 2 and use them to	 How does this content link to future Order positive and/or negative 	re learning?	n as integers	
d	lerive the corresponding division fac	ts	decimals, and fractions, including improper fractions.			
• V • R	 Apply the four operations, including formal written methods, to Recognise prime numbers. Apply the four operations, including formal written methods, to simple fractions (proper and improper) and mixed numbers - 					
• F	actorise whole numbers. both positive and negative.					
• U • D	Inderstand and use set notation.		 Write a traction in its simplest form. Calculate exactly with fractions. 			
• U	se basic rules of indices.					
Understand index form and calculate with index numbers. Reading: Where in the unit are students supported to read Writing: Independent writing tasks and how they are structured						
comp Recursion R P D th F to R	 complex academic text? Reading and understanding mathematical questions and problems' – teacher input. 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. Using the correct subject specific terminology for numbers and symbols – examination papers, class books. Responding to questions that ask for an explanation or a reason – examination papers, class books. 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 - 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.