KEVICC Key Stage 4 Curriculum Subject: Mathematics					Key Vocabulary and notation.		
Spring Half-Term					Creative the suppl	Create	
Term: Year 11 Spring Term – Block Five Topic: Growth and Decay					Growth and	Growth	
What is the essential knowledge from this unit? What do students need to remember and understand?					Decay	Express	
what d	to students need to remember and	understand?			Fraction	Factor	
	Specification content		Specification notes		Decimal	Multiple	
	Specification coment		specification notes		Percentage	Round	
R16 Set up, solve and interpret the answers in growth and deco			ay problems, including		Equivalent	Integer Profit	
<u>compound interest</u>					Denominator	Loss	
Students should be able to:					Numerator	Interest	
solve problems involving repeated proportional change					Fraction key	Change	
<ul> <li>use calculators to explore exponential growth and decay using a multiplier and the power</li> <li>solve compound interest problems.</li> </ul>					Estimate	Original	
					Rounding	Invest	
					Conversion	Reverse	
					Hundredth	Compound	
					Tenth	interest	
					Reduce	Simple	
					Decrease	interest	
				Multiplier	Exponential		
					Increase	growth	
					should be design the structure of the deepen the struc- understanding. It talk about mather concepts, they so the vital mather language that he explain their ide Students are exp encouraged to during all discuss feedback and in content.	the maths and dent's When students ematical should develop natical helps them as fully. Dected and use terminology sions, verbal	
What prior learning supports understanding of this content?         How does this content link to future learning?							
	olve problems involving direct and ir cluding graphical and algebraic re		<ul> <li>Consolidate solving problems involving growth and decay from key stage 4.</li> </ul>				
• Ur	nderstand that x is inversely proport x is proportional to $\frac{1}{y}$		<ul> <li>Consolidate solving problems involving direct and inverse proportion from key stage 4.</li> </ul>				
• int	terpret equations that describe dire	ct and inverse	• Consolidate recognising and interpreting graphs that illustrate direct and inverse proportion from key stage 4.				
• Re	Recognise and interpret graphs that illustrate direct and     Revise and explore subject				content through examination		
	verse proportion ng: Where in the unit are students su	pported to read	questions and in context. Writing: Independent writing t	asks (			
complex academic text?				ng the correct subject specific terminology for numbers and			
	<ul> <li>Reading and understanding mathematical questions and problems' – teacher input.</li> <li>symbols – examination papers, class books.</li> <li>Responding to questions that ask for an explanation or of the symbols.</li> </ul>						
Decoding complex examination questions - explain what			reason – examination pa	n papers, class books.			
<ul> <li>they are asking the student to do' – teacher input.</li> <li>Following instructions to solve problems - break down the</li> </ul>				tion, reviewing, reflecting and analysis of own work ks, personalised learning checklists and analysis.			
tasks – teacher input.			Creating notes that can be used later for revision purposes -				
• Re	ecognising terminology, numbers, a	nd symbols.	class books, revision carc	ls, mii	nd 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.