KEVICC Key Stage 4 Curriculum Subject: Mathematics				Key Vocabulary and notation.	
	Spring Half-Term		Growth and	Compound	
Term: Year 11 Spring Term – Block Six Topic: Growth and Decay and Numerical Methods			Decay	interest	
What is the essential knowledge from this unit? What do students need to remember and understand?			Fraction	Simple	
			Decimal	interest	
	Specification content	Specification notes	Percentage	Exponential	
			Equivalent	growth	
R16 Set up, solve, and interpret the answers in growth compound interest and work with general iteration		ecay problems, including	Denominator	Iteration	
Gottipootia interess. dila work wiiii gottoria ilotaino processos			Numerator	Accurate	
Students should be able to:			Fraction key	Solution	
<ul> <li>solve problems involving repeated proportional change</li> <li>use calculators to explore exponential growth and decay using a multiplier and the power</li> </ul>			Estimate	Substitute	
solve compound interest problems.				Formula	
R16h Set up, solve and interpret the answers in growth and decay problems, including			Rounding  Conversion	Solution	
compound interest and work with general iterative processes		Hundredth			
				between	
Students should be able to:  model growth and decay problems mathematically			Tenth	Repeating	
<ul> <li>solve growth and decay problems, for example using multipliers or iterative processes</li> <li>understand that some iterations may have a limiting value.</li> </ul>			Reduce	Iterative	
			Decrease	formula	
A20h	Find approximate solutions to equations numerically	including the use of suffix	Multiplier	Sequence	
	using iteration	notation in recursive formulae	Increase	Input	
Studer	nts should be able to:		Loss	Output	
<ul> <li>use systematic trial and improvement to find approximate solutions of equations where there</li> </ul>			Interest	Growth and	
is no simple analytical method  use suffix notation in recursive formulae			Change	Decay	
<ul> <li>use sutfix notation in recursive formulae</li> <li>find approximate solutions using recursive formulae.</li> </ul>			Original	Recursive	
			Invest	formula Rounding	
			should be design the structure of deepen the structure of talk about mathet concepts, they the vital mathet language that he explain their ide.  Students are expended to during all discustive deepended to during all content.	the maths and dent's When students nematical nelps them eas fully.  Dected and use terminologisions, verbal	
Vhat pri	ior learning supports understanding of this content?	How does this content link to futu	re learnina?		
Rec	cognise that equations of the form $y = mx + c$ correspond	Consolidate all aspects of all	gebra from key sto		
	straight-line graphs in the coordinate plane. mplete tables of values for straight-line graphs.	<ul> <li>Revise and explore subject of questions and in context.</li> </ul>	content through ex	amination	
Dro	aw graphs of functions in which y is given explicitly or				
	olicitly in terms of x.  Iculate the gradient of a given straight-line given two				
	nts or from an equation.				
	ostitute numerical values into formulae and expressions.				
	uplify and manipulate algebraic expressions (including use involving surds).				
eading	g: Where in the unit are students supported to read	Writing: Independent writing task			
	x academic text? ading and understanding mathematical questions and	Using the correct subject specific terminology for numbers and symbols – examination papers, class books.			
pro	bblems' – teacher input.	<ul> <li>Responding to questions the</li> </ul>	t ask for an explan	ation or a	
	coding complex examination questions - explain what y are asking the student to do' – teacher input.	<ul><li>reason – examination paper</li><li>Self-evaluation, reviewing, re</li></ul>		isis of own wor	
Foll	owing instructions to solve problems - break down the	<ul> <li>class books, personalised le</li> </ul>	earning checklists o	and analysis.	
task	ks – teacher input. cognising terminology, numbers, and symbols.	<ul> <li>Creating notes that can be class books, revision cards, n</li> </ul>	used later for revisi	on purposes -	

## 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