KEVICC Key Stage 4 Curriculum Subject: Mathematics Key V	Vocabulary and notation.
Spring Half-Term	
Term: Year 11 Spring Term - Block Eive Tonic: Transforming Functions	nction Equation tation Graph
What is the accortial knowledge from this unit?	tation Graph nctions Sketch
What do students need to remember and understand?	ansformation x- coordinate
	ear y- coordinate
Specification content Specification notes Que	Jadratic Axes
Sine	1
	osine Horizontally
	dependent Represents
	ependent Stretch apping Stretches
	aluate Multiply
recognise transformations of functions and be able to write down the function of a	bstitute Constant
transformation given the original function.	ariable Scale factor
Find	id the value Parallel
	anslate x-axis
	anslating y-axis
	ector Combinations
	= f(x) Trigonometric = f(x) + a graphs
	$= f(ax) \qquad \qquad y = \sin x$
	$f(x+a) = f(x+a)$ $y = \cos x$
y =	$= af(x)$ $y = \tan x$
be d struc deep	hematical questioning should designed to unpick the cture of the maths and open the student's
talk d	erstanding. When students about mathematical cepts, they should develop
the v	vital mathematical language thelps them explain their
	as fully.
	dents are expected and ouraged to use terminology
	ng all discussions, verbal
feed	dback and in written content.
What prior learning supports understanding of this content? How does this content link to future learn	ning?
 Identify, describe, and construct congruent and similar shapes, including on co-ordinate axes, by considering Set up, solve, and interpret the answ problems, including compound interpret 	
rotation, reflection, translation and enlargement (including fractional and negative scale factors). • Find approximate solutions to equa	ations numerically using
 Substitute numerical values into formulae and expressions, including scientific formulae. 	
Recognise, sketch and interpret graphs of linear functions,	
quadratic functions, simple cubic functions, the reciprocal	
function, $y = \frac{1}{x}$ with $x \neq 0$, exponential functions $y = k^x$ for	
positive values of <i>k</i> , and the trigonometrical functions. Reading: Where in the unit are students supported to read Writing: Independent writing tasks and h	how they are structured
complex academic text? • Using the correct subject specific te	
Reading and understanding mathematical questions and symbols – examination papers, class	ss books.
 problems' – teacher input. Responding to questions that ask fo avagination papers class backs 	
 Decoding complex examination questions - explain what they are asking the student to do' – teacher input. Self-evaluation, reviewing, reflecting 	
 Following instructions to solve problems - break down the Class books, personalised learning of 	
 tasks - teacher input. Recognising terminology, numbers, and symbols. Creating notes that can be used la class books, revision cards, mind more class books. 	

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