KEVIC	C Key Stage 4 Curriculum Subject: A	Mathematics		Key Vocabulary and notation.		
Autumn Half-Term						
Term: Year 10 Autumn Term – Block One  What is the essential knowledge from this unit? What do students need to remember and understand?			Base SCI/EXP Index/indices Reciprocal Power Zero			
	Specification content		Specification notes	Exponent Root Standard Big		
N2	2 Understand and use place value (e.g. when working with very large or very small numbers)			form Small Standard Positive (index) form Negative Negative Whole Place value number Convert Ordinary Multiplying numbers Dividing Ascending index law order Commutative Descending		
	ents should be able to: add, subtract, multiply and divide in add, subtract, multiply and divide of add, subtract, multiply and divide of add, subtract, multiply and divide of add, subtract, multiply and divide p interpret a remainder from a division recall all positive number compleme recall all multiplication facts to 12 × facts overform money and other calculation apply the four rules to fractions with multiply and divide a fraction by an divide an integer by a fraction.					
N9	Calculate with and interpret star $A \times 10^n$ , where $1 \le A < 10$ and n		with and without a calculator interpret calculator displays	Scientific order notation Scientific		
• • •	know, use, and understand the term write an ordinary number in standar write a number written in standard forder and calculate with numbers visolve simple equations where the number calculator displays use a calculator effectively for standard form problems with a	Mathematical questioning 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 discussions, verbal feedback and in written content.		
<ul> <li>Ac</li> <li>US</li> <li>Ac</li> <li>nu</li> <li>In</li> <li>Re</li> <li>de</li> </ul>	prior learning supports understanding dd, subtract, multiply and divide inting both mental and written methodd, subtract, multiply and divide poumbers.  It is a remainder from a division ecall all positive number complement ecall all multiplication facts to 12 × 10 erive the corresponding division factors are expressions using indices.	egers and decimals ads. sitive and negative problem. and to 100. 2 and use them to	Revisit standard form using the Solve problems involving per      Percentage increa      Original value prob      Simple interest, includes the standard form using the s	Solve problems involving percentage change, including:		
<ul> <li>Reading: Where in the unit are students supported to read complex academic text?</li> <li>Reading and understanding mathematical questions and problems' – teacher input.</li> <li>Decoding complex examination questions - explain what they are asking the student to do' – teacher input.</li> <li>Following instructions to solve problems - break down the tasks – teacher input.</li> <li>Recognising terminology, numbers, and symbols.</li> </ul> Writing: Independent writing tasks and how they are structured symbols – examination papers, class books. <ul> <li>Responding to questions that ask for an explanation or a reason – examination papers, class books.</li> <li>Self-evaluation, reviewing, reflecting and analysis of own we class books, personalised learning checklists and analysis.</li> <li>Creating notes that can be used later for revision purposes class books, revision cards, mind maps etc.</li> </ul>						

## 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.