KEVICC Key Stage 3 Curriculum Subject: Mathematics			Key Vocabulary and notation.	
Autumn Half-Term 1 Algebraic Thinking			Equality	Term
Term: Year 7 Autumn Term – Block Three	Topic: Equality & I	Equivalence	Equation	Like
What is the essential knowledge from this unit?			Equals	Unlike
What do students need to remember and understand?			·	
Students are introduced to forming and solving one-step linear equations, building on their study of			Is equal to	Coefficient
inverse operations. The equations met will mainly require the use of a calculator, both to develop			Fact family	Index
their skills and to ensure understanding of how to solve equations rather than spotting solutions. This work will be developed when two-step equations are met in the next place value unit and			Bar model	Expression
throughout the course. The unit finishes within consideration of equivalence and the difference			Solve	Equivalent
between tis and equality, illustrated through collecting like terms.			Solution	Simplify
National curriculum content covered:			Unknown	Collect
Use algebra to generalise the structure of arithmetic, including to formulate mathematical			Inverse	
relationships.				
<ul> <li>Simplify and manipulate algebraic expressions to maintain equivalence by collecting like terms.</li> </ul>			≡	
<ul> <li>Use approximation through rounding to estimate answers.</li> </ul>				
Use algebraic methods to solve linear equations in one variable.			Mathematical a	uestioning should
We know that breaking the curriculum down int	o small manageab	le steps should help students to	be designed to u	unpick the
understand concepts better. As a result, for each block of content in the scheme of learning we			structure of the maths and deepen the student's understanding. When	
have provided the following 'small step' breakdown for this unit as follows:			students talk abo	out mathematical
Lesson One - Understand the meaning of equality			concepts, they s	hould develop the cal language that
Lesson Two - Understand and use fact families, numerically and algebraically				ain their ideas fully.
Lesson Three - Solve one-step linear equations involving +/- using inverse operations Lesson Four - Solve one-step linear equations involving x/÷ using inverse operations			Students are exp	pected and
Lesson Five - Understand the meaning of like and unlike terms			encouraged to use terminology during all discussions, verbal feedback and in written content.	
Lesson Six - Understand the meaning of equivalence				
Lesson Seven - Simplify algebraic expressions by collecting like terms, using the $\equiv$ symbol				
<ul> <li>What prior learning supports understanding of this content?</li> <li>Perform mental calculations involving addition, subtraction, multiplication and division.</li> <li>Use simple formulae.</li> <li>Express missing number problems algebraically.</li> <li>Find pairs of numbers that satisfy an equation with two unknowns.</li> </ul>				h and without
Reading: Where in the unit are students supported to read complex academic text? Writing: Independent writing task • Using the correct subject spe			ecific terminology for numbers and	
<ul> <li>Reading and understanding mathematical questions and problems' – teacher input.</li> <li>symbols – examination paper</li> <li>Responding to questions that</li> </ul>				
Decoding complex examination questions - explain what     – examination papers, class			books.	
they are asking the student to do' – teacher input. • Self-evaluation, reviewing, re			eflecting and analysis of own work –, arning checklists and analysis.	
tasks – teacher input.   • Creating notes that can be			used later for revision purposes -	
<ul> <li>Recognising terminology, numbers, and symbols.</li> <li>Recognising patterns and relationships in mathematics.</li> <li>class books, revision cards, mind maps etc.</li> </ul>				
Key assessments:				
How will students review the information learned? End of block assessments.				
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 covered. A Core paper – it is envisaged that all students will take this paper, to provide a direct comparison with the performance of the rest of the				
cohort. All topics from each term will be covered, and the use of a calculator is expected.				
End of term assessments. A Foundation paper – students who are working	a below national ex	pectations will have the opportuni	tv to show their un	derstandina of the
material with more straightforward questions. Non calculator paper.				
A Higher paper – students who are working at or above national expectations will have the opportunity to tackle more challenging questions on the same material, plus the extra objectives indicated as "Higher" in our scheme of learning. Non calculator paper.				
How will feedback be seen?				
Marked end of block and term assessments. Personalised learning checklists for end of term 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.				