KEVICC Key Stage 3 Curriculum Subject: Mathematics				Key Vocabulary and notation.		
Spring Half-Term 1 Application of Number				Tatal	Educa	
Tern	<b>n:</b> Year 7 Spring Term – Block One	Topic: Addition & Subtr	action	Sum	Polygon	
Who	t is the essential knowledge from this i	unit?		Difference	Profit	
What do students need to remember and understand?				Number Line	Loss Balance	
The facus for this black is building on the formal methods of addition and subtraction developed av				Commutative	Credit	
key stage 2. All students will look at this in the context of interpreting and solving problems, for those				Associate	Debit	
for whom these skills are secure, there will be even more emphasis on this. Problems will be drawn				Inverse Bridaina	Statement	
from the contexts of perimeter, money, interpreting bar charts and tables and looking at frequency				Bridging	Change	
trees; we believe all these are better studied alongside addition rather than separately. Calculators				Partition	Row	
shou.	uld be used to check and/or support c	alculations, with significa	nt figures and equations explicitly	Count On	Column	
revisited.				Number bonds	Entry	
National curriculum content covered:				Column	Total	
Use formal written methods, applied to positive integers and decimals.				Method	Hours	
•	Recognise and use relationships betw	een operations including	inverse operations.	Place Value	Minutes	
•	Drive and apply formulae to calculate	e and solve problems inv	olving perimeter.	Exchange	Column	
•	Construct and interpret tables, charts,	and diagrams, including	g frequency tables, bar charts and	Placeholder	Entry	
pictograms for categorical data, and vertical line (or bar) charts for ungrouped data.				Decimal Point	Total	
We know that breaking the curriculum down into small manageable steps should help students to				Equivalence	Hours	
understand concepts better. As a result, for each block of content in the scheme of learning we				Estimating	Minutes	
have provided the following 'small step' breakdown for this unit as follows:				Exchange	Frequency	
Lesson One - Properties of addition and subtraction				Equation	Frequency	
Lesson Two - Mental strategies for addition and subtraction				Inverse	Part-whole	
Lesson Three - Use formal methods for addition of integers				Diait	Axis	
Lesson Four - Use formal methods for addition of decimals				Mental	Scale	
Lesson Five - Use formal methods for subtraction of integers				Written	Dual	
Lesson Six - Use formal methods for subfraction of decimals				Jottings	Multiple	
Lesson Fight - Solve financial maths problems				Calculator	Standard	
Lesson Nine - Solve problems involving tables and timetables				Length	form	
Lesson Ten - Solve problems with frequency trees				Distance	Fundament	
Lesson Eleven - Solve problems with bar charts and line charts				Units	Significant	
Lesson Twelve - Add and subtract numbers given in standard form (H)					figure	
Notes/Links/Interleaving				Mathematical au	estioning should	
<ul> <li>Perimeter problems to revisit equations and simplifying.</li> </ul>				be designed to unpick the		
•	Tables to include distance charts and simple timetables.			structure of the maths and		
•	Revisit rounding.     Chaosing when to use montal written or agle datas methods			deepen the student's		
<ul> <li>Order of operations to be revisited with pegative numbers</li> </ul>			talk about mathematical			
				concepts, they should develop		
Additional Higher Content				that helps them explain their		
Explore addition of numbers given in standard form.				ideas fully.		
				encouraged to use terminology		
				during all discussio	ons, verbal	
\A/h a		of this content?	How doos this content link to future	feedback and in	written content.	
•	Use mental and formal written method	ds of addition with	<ul> <li>Multiply by 10, 100 and 1000, 0</li> </ul>	).1 and 0.01, and co	onvert metric	
	integers and decimals.					
•	Use their knowledge of the order of operations to carry out calculations involving the four operations.			n methods of multiplication and		
•	Use simple formulae. • Find the HCF and LCM of small			Ill numbers.		
•	Use and interpret algebraic notation. Form and substitute into expressions			ctangles and parallelograms.		
•	<ul> <li>Interpret and construct pie charts and line araphs and use</li> <li>Find simple fractions and percentages of amourt</li> </ul>				s.	
them to solve problems. Use their knowledge of the or			der of operations to	carry out		
Explore and use standard index form.     Calculations involving the four operations.						
complex academic text? • Using the correct subject specific terminology for numbers					numbers and	
Reading and understanding mathematical questions and     symbols – examination papers, class books.						
	<ul> <li>Problems' – teacher input.</li> <li>Responding to questions that ask for an explanation or a reaso examination paper.</li> </ul>				on or a reason	
	they are asking the student to do' – teacher input.			lecting and analysis of own work –.		
•	Following instructions to solve problems - break down the class books, personalised I			arning checklists and analysis.		
tasks – teacher input.     Creating notes     class books rev			Creating notes that can be us     class books rovision cards million	sed later for revision	purposes -	
•	Recognising patterns and relationship	s in mathematics.		na maps etc.		

## 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.

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?

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.