KEVICC Key Stage 3 Curriculum Subject: Mathematics			Key Vocabulary and notation.		
Autumn Half-Term 2 Representation			Variable	Counted	
Term: Year 8 Autumn Term – Block Five	Topic: Representing Do	ata	Polationship	Ouditive	
What is the essential knowledge from this unit? 2			Origin	Quantitative	
What do students need to remember and understand?			Scale	Frequency	
Students are introduced formally to bivariate data and the idea of linear correlation. They extend their knowledge of graphs and charts from key stage 2 to deal with both discrete and continuous data.			Coordinate	Ungrouned	
			Avis	Total	
				Subtotal	
National curriculum content covered:			Decrease	Grouped	
 Describe, interpret and compare observed distributions of a single variable through: appropriate graphical representation involving discrete, continuous and grouped data. Construct and interpret appropriate tables, charts and diagrams, including frequency tables, bar charts, pie charts, and pictograms for categorical data and vertical line (or bar) charts for ungrouped and grouped numerical data. Describe simple mathematical relationships between two variables (bivariate data) in observational and experimental contexts and illustrate using scatter graphs. Use language ad properties precisely to analyse probability and statistics. 			Relationship	Tally	
			Correlation	Range	
			Positive	Group	
			Negative	Equal	
			Strong	Class	
			Weak	Class	
We know that breaking the curriculum down into small manageable steps should help students to			Line of best fit	boundary	
understand concepts better. As a result, for each block of content in the scheme of learning we have provided the following 'small step' breakdown for this unit as follows:			Estimate	Estimate	
			Straight		
Lesson One - Draw and interpret scatter graphs.			Extrapolate	than/Faual to	
Lesson Two - Understand and describe linear correlation.			Outlior	Greater than	
Lesson Three - Draw and use line of best fit.			Variable	Continuous	
Lesson Five - Identify different types of data.				Patio	
Lesson Six - Read and interpret ungrouped frequency tables.			Continuous	Fraction	
Lesson Seven - Read and interpret grouped trequency tables.			Measured	Percentage	
Lesson Nine – Represent continuous data grouped into equal classes.			Medsored	reiceniuge	
 Lesson Ten – Construct and interpret two-way tables. Interleaving/Extension of previous work Links to representing data and using graphs in other areas of the curriculum. 			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		
			Students are expected and encouraged to use terminology during all discussions, verbal feedback and in written content.		
What prior learning supports understandin	g of this content?	How does this content link to future	e learnina?		
 Interpret and construct pie charts an them to solve problems. Calculate and interpret the mean as 	an average.	 Understand and use primary and secondary data sources. Collect data, including questionnaires. Interpret and construct statistical diagrams, including multiple bar charts. Construct and interpret pie charts. Compare distributions using charts. Identify misleading graphs. 			
 Reading: Where in the unit are students supported to read complex academic text? Reading and understanding mathematical questions and problems' – teacher input. Decoding complex examination questions - explain what they are asking the student to do' – teacher input. Following instructions to solve problems - break down the tasks – teacher input. Recognising terminology, numbers, and symbols. Recognising patterns and relationships in mathematics. Writing: Independent writing tasks and how they are structured Using the correct subject specific terminology for numbers and symbols – examination papers, class books. Responding to questions that ask for an explanation or a rease examination papers, class books. Responding to questions that ask for an explanation or a rease examination papers, class books. Creating notes that can be used later for revision purposes - obooks, revision cards, mind maps etc. 				structured or numbers and ition or a reason – is of own work –, d analysis. n purposes - class	

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.