KEVICC Key Stage 4 Curriculum Subject: Mathematics				Key Vocabulary and notation.	
Autumn Half-Term				Consolisting Consults	
Term: Year 10 Autumn Term – Block Four Topic: Statistical Measures				Cumulative	Quartile
What is the essential knowledge from this unit? What do students need to remember and understand?				frequency	Upper
wnate	do students need to remember and	understand?		Frequency	Quartile
	Specification content	Specification notes	s	table	Inter-quartile
				Discrete	range
S4	Interpret, analyse, and compare the distributions of data sets from univariate empirical distributions through: appropriate measures of central tendency (median, mean, mode and modal class)			data	Class interval
				Qualitative	Mean
	spread (range, including consideration of outliers)			Continuous	Median
Students should be able to:				data	Range
decide whether data is qualitative, discrete, or continuous and use this decision to make				Grouped	Modal Class
sound judgements in choosing suitable diagrams for the data understand the difference between grouped and ungrouped data				data	Analyse
understand the advantages and disadvantages of grouping data				Quartiles	Estimate
 distinguish between primary and secondary data use lists, tables or diagrams to find values for the above measures 				Box plots	Frequencies
find the mean for a discrete frequency distribution find the median for a discrete frequency distribution				Compare	Axis
 find the median for a discrete frequency distribution find the mode or modal class for frequency distributions 				data	Axes
calculate an estimate of the mean for a grouped frequency distribution, knowing why it is an estimate				Draw conclusions	Horizontal Vertical
find the interval containing the median for a grouped frequency distribution					Curve
 choose an appropriate measure to be the 'average', according to the nature of the data identify outliers 				Primary data	Outliers
 identity outliers find patterns in data that may lead to a conclusion being drawn 			Secondary	Minimum	
•	look for unusual data values such o	is a value that does not fit	an otherwise good correlation.	data	
S5	Apply statistics to describe a po	nulation			value
				Distribution Lower	Maximum value
	ents should be able to: use measures of central tendency	ana al ma a anni ma a af aliana a mai a		Quartile	Whisker
	use statistical diagrams to describe		into describe a population	Distribution	Compare
				Lower	data
\$1	of sampling	r distributions from a samp	ole, whilst knowing the limitations	Mathematical	guestioning
Students should be able to: find patterns in data that may lead to a conclusion being drawn look for unusual data values such as a value that does not fit an otherwise good correlation understand that samples may or may not be representative of a population understand that the size and construction of a sample will affect how representative it is.				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 elencouraged to during all discu feedback and content.	xpected and ouse terminologoussions, verbal
	orior learning supports understandir evisit the median and mean, includ		 How does this content link to futu Consolidate subject conten 		asures from kev
given the mean. stage 4.			stage 4.		
			 Revise and explore subject of questions and in context. 	content through e	examination
	hoose the appropriate average. nd unknown data values given the	mean or changes in the			
m	ean.				
	nd the median from a table of valung: Where in the unit are students s		Writing: Independent writing task	s and how thou a	re structured
p P D th	lex academic text? eading and understanding mather roblems' – teacher input. ecoding complex examination que tey are asking the student to do' – bllowing instructions to solve proble asks – teacher input.	natical questions and estions - explain what teacher input. ms - break down the	 Writing: Independent writing tasks and how they are structured Using the correct subject specific terminology for numbers ar symbols – examination papers, class books. Responding to questions that ask for an explanation or a reason – examination papers, class books. Self-evaluation, reviewing, reflecting and analysis of own wor – class books, personalised learning checklists and analysis. Creating notes that can be used later for revision purposes - class books, revision cards, mind maps at 		
 Re 	ecognising terminology, numbers, o	and symbols.	class books, revision cards, r	nind maps etc.	

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