KEVICC Key Stage 4 Curriculum Subject: Mathematics Summer Half-Term					Key Vocabulary and notation.	
					Outcomes Sample	
Term: Year 9 Summer Term – Block One Topic: Basic Probability					Sample	
What is the essential knowledge from this unit? What do students need to remember and understand?					Denominator	
/nat c	do students need to remember and	understand?		space	Intersection	
	Specification content		Specification notes	Set	And / Or	
	specification content		specification notes	Probability	Union	
P1	Record, describe and analyse the frequency of outcomes of probability experiments using tables and frequency trees probabilities should be written as fractions, decimals, or percentages			Systematic	Region	
				Chance	Total	
				Probability	Possibilities	
Students should be able to:					Product	
design and use two-way tables applied a two way table from given information.					Table	
 complete a two-way table from given information complete a frequency table for the outcomes of an experiment 					Order	
understand and use the term relative frequency					Theoretical	
consider differences, where they exist, between the theoretical probability of an outcome and its relative frequency in a practical situation					probability	
complete a frequency tree from given information					Mutually	
•	use a frequency tree to compare frequencies of outcomes.				exclusive	
P4	Apply the property that the probabilities of an exhaustive set of outcomes sum to one Apply the property that the probabilities of an exhaustive set of mutually exclusive events sum to one			Probability Mathematical	events I questioning	
Stude	ents should be able to:				igned to unpick	
 understand when outcomes can or cannot happen at the same time 					rudent's	
use this understanding to calculate probabilities State Control Control					g. When student Ithematical	
 appreciate that the sum of the probabilities of all possible mutually exclusive outcomes must be 1 					y should develo	
•	find the probability of a single outco	ome from knowing the pr	obability of all other outcomes.	the vital math		
P7	Construct theoretical possibility spaces for single and combined experiments with equally likely outcomes and use these to calculate theoretical probabilities			explain their ic	deas fully.	
				Students are e	expected and ouse terminology	
Students should be able to: • list all the outcomes for a single event in a systematic way					ussions, verbal	
list all the outcomes for two events in a systematic way				feedback and content.	d in written	
	design and use two-way tables			Comen.		
	complete a two-way table from giv design and use frequency trees	en information				
	work out probabilities by counting o					

What prior learning supports understanding of this content?	How does this content link to future learning?		
 Order decimal numbers. Cancel fractions to their simplest form. Add and subtract fractions and decimals. Change fractions of an amount. Change fractions to decimals. Understand and use the language of probability. Calculate the probability of a single event. Use the sum of probabilities of an event as 1. Understand and use set notation. Draw and interpret Venn diagrams. 	 Apply ideas of randomness, fairness, and equally likely events to calculate expected outcomes or multiple future experiments. Understand that empirical unbiased samples tend towards theoretical probability distributions with increasing sample size. Enumerate sets and combinations of sets systematically using tables, grids, Venn diagrams and tree diagrams. Calculate the probability of independent and dependent combined events, including using tree diagrams and other representations, and know the underlying assumptions. 		
 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. 	 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 reason – examination papers, class books. Self-evaluation, reviewing, reflecting and analysis of own work – class books, personalised learning checklists and analysis. Creating notes that can be used later for revision purposes - class books, revision cards, mind 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.