KEVICC Key Stage 4 Curriculum Subject: Mathematics				Key Vocabulary and notation	
Summer Half-Term Term: Year 9 Summer Term – Block Two Topic: Basic Probability			Outcomes Sample		
Topic: Basic Probability What is the essential knowledge from this unit? What do students need to remember and understand?			Sample	Denominato	
			space	Intersection	
	Specification content	Specification notes	Set Probability	And / Or Union	
D.1	Decayed describe and makes the fire ways of	probabilities should be written as fractions, decimals or percentages	Systematic	Region	
P1	Record, describe and analyse the frequency of outcomes of probability experiments using tables and		Chance	Total	
	frequency trees		Probability	Possibilities	
			Event	Product	
Students should be able to: • design and use two-way tables					
complete a two-way table from given information			Equally	Table	
 complete a frequency table for the outcomes of an experiment understand and use the term relative frequency 			likely	Order	
consider differences, where they exist, between the theoretical probability of an outcome			Unbiased	Theoretical	
and its relative frequency in a practical situation			P(event)	probability	
 complete a frequency tree from given information use a frequency tree to compare frequencies of outcomes. 			Two-way	Mutually exclusive	
			table	events	
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				
				l questioning igned to unpic	
Students should be able to: understand when outcomes can or cannot happen at the same time use this understanding to calculate probabilities appreciate that the sum of the probabilities of all possible mutually exclusive outcomes must be 1 find the probability of a single outcome from knowing the probability of all other outcomes.			the structure of the maths ar deepen the student's understanding. When studer talk about mathematical concepts, they should devel the vital mathematical language that helps them		
P7	Construct theoretical possibility spaces for single and con likely outcomes and use these to calculate theoretical pr		explain their ideas fully. Students are expected and encouraged to use terminolo		
• lis	nts should be able to: st all the outcomes for a single event in a systematic way st all the outcomes for two events in a systematic way lesign and use two-way tables omplete a two-way table from given information			ussions, verbal	

- 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.

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.

- 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.

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?

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