KEVICC Key Stage 4 Curriculum Subject: Mathematics				Key Vocabulary	Key Vocabulary and notation.	
Summer Half-Term					-	
Term: Year 10 Summer Term – Block Four Topic: Probability Two – Tree and Venn Diagrams				Numerator	Two-way	
What is the essential knowledge from this unit? What do students need to remember and understand?				Denominator	tables	
nai a	o students need to remember and	unaersiana?		Exact value	Venn	
	Specification content		Specification notes	Lowest	diagram	
	1			common	Frequency	
P6	Enumerate sets and combinations of sets systematically using tables, grids, Venn diagrams and tree diagrams			ms multiple Simplest form	trees Universal set	
dita nee diagrams				Equally likely	Sample	
Students should be able to:				Outcome	space	
 complete tables and/or grids to show outcomes and probabilities complete a tree diagram to show outcomes and probabilities 				Event	Systematic	
· L	understand that P(A) means the pro	bability of event A		Complement	Array	
 understand that P(A/) means the probability of event not A understand that P(A ∪ B) means the probability of event A or B or both understand that P(A ∩ B) means the probability of event A and B understand a Venn diagram consisting of a universal set and at most two sets, which may or may not intersect shade areas on a Venn diagram involving at most two sets, which may or may not intersect solve problems given a Venn diagram solve problems, where a Venn diagram approach is a suitable strategy to use but a diagram 				Venn	Independer	
					events	
				Intersect	Product	
				Union	Outcomes	
					At least one	
is	is not given in the question.				Dependent	
8	Calculate the probability of independent and dependent combined events, including using tree diagrams and other representations, and know the		know when to add and when to multiply two or more probabilities	frequency Estimate	events	
				Expectation	Tree diagrar	
	underlying assumptions	ons, and know me	<u>probabilities</u>	Expected	Conditional	
Students should be able to: determine when it is appropriate to add probabilities determine when it is appropriate to multiply probabilities understand the meaning of independence for events calculate probabilities when events are dependent understand the implications of with or without replacement problems for the probabilities obtained complete a tree diagram to show outcomes and probabilities use a tree diagram as a method for calculating probabilities for independent or dependent events.				value	probability	
				Sample	Given	
				Probability	Show	
				Chance	Set	
				Equally likely	Union	
				Unbiased	Region	
				nt Possibilities	And / Or	
				Mathematical o		
P9h		Calculate and interpret conditional probabilities through representation using expected frequencies with two-way tables, tree diagrams and Venn diagrams			ned to unpick the maths and	
	irequencies with two-way tables	, iree diagrams and vei	nn diagrams 	deepen the stu	dent's	
Students should be able to:				understanding. talk about math		
 understand conditional probability understand the implications of with or without replacement problems for the probabilities obtained complete a tree diagram to show outcomes and probabilities use a tree diagram as a method for calculating conditional probabilities use a Venn diagram as a method for calculating conditional probabilities. 					concepts, they should develop the vital mathematical language that helps them	
				explain their ide	eas fully.	
				Students are ex		
					encouraged to use terminolog during all discussions, verbal	
				feedback and i		
				content.		

- Add and subtract fractions and decimals.
- Multiply and divide a fraction by an integer.
- Multiply and divide a fraction by a fraction.
- Change fractions to decimals.
- Understand and use the language of probability.
- 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.

- stage 3 and 4.
- Revise and explore subject content through examination questions and in context.

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 students self-assessment of presentation of class books will be completed to ensure written work is of high standard and students are achieving their