

YEAR 11 - MATHEMATICS

Preliminary Topic 1 – PROBABILITY AND VENN DIAGRAM

MATHEMATICS ADVANCED

LEARNING PLAN

Learning Intentions Student is able to:	Learning Experiences Implications, considerations and implementations:	Success Criteria I can:	Resources
(i) Understand the language of Theoretical Probability Relative Frequency and Probability Scale.	Review two-step and three-step experiments with and without replacements.	Determine Probabilities for given events.	
(ii) Understand how to solve real-world problems by using simulations.	Obtain data from simple experiments. Obtain data from other sources.	Identify factors that could complicate the simulation. Using relative frequencies to estimate probabilities.	Simulation
(iii) Understand how to use arrays and tree diagrams	Display outcomes in probability trees showing if each stage depends on the previous stage or not.	Draw and use arrays and trees.	

(iv) Understand how to use Venn diagrams and set language	Use the correct notation for events using Venn diagrams and set language.		Venn Diagrams Monty Hall problem
(v) Understand how to use the Venn Diagram rules			
(vi) Understanding Conditional probability			Conditional Probability and Independent Events
(vii/viii) Understand how to use conditional probability notation	Know how to use the formula		
(ix) Understand how to use the multiplication law	Recognise the symmetry of independence in simple probability situations		