



Knowledge Rich Curriculum Plan

Year 11 Foundation – Probability



Lesson/Learning Sequence	Intended Knowledge: Students will know that	Tiered Vocabulary	Prior Knowledge: In order to know this, students need to already know that	Steps to Success
To learn how to draw and use a tree diagram for independent events Basic probability in starters!	Students will know how to show given information on a probability tree diagram. Students will know how to complete probabilities using both decimals and fractions to represent probabilities Students will know construct a probability tree for multiple events Students will know how to use a probability tree diagram to represent outcomes of combined independent events (with replacement) Students will know how to use tree diagrams to calculate the probability of two combined independent events by multiplying across the branches (this can either be fractions or decimals)	Independent – not subject to control by anything else Independent Events – Two events are independent if the occurrence of one event does not affect the chances of the occurrence of the other event	Students will need to know that the probability of all possible outcomes for an event add to 1 Students will need to know how to multiply decimals Students will need to know how to multiply fractions	Probability trees steps
To learn how to complete and use a tree diagram for dependent events	Students will understand how and why the outcome of one event can impact the outcome of a subsequent event Students will know how to complete and construct probability trees for dependent events Students will know how to use probability trees to calculate the probabilities of combined events for dependent events	Dependent – determined by Conditional/ Dependent Events – events whose outcomes rely on that of another event	Students will need to know how to use a tree diagram for independent events Students will need to know how to multiply decimals Students will need to know how to multiply fractions	
To learn how to create and use a Venn diagram to determine probabilities	Students will know how to put information into a Venn diagram and use it to determine probabilities Students will know how to construct appropriate Venn diagrams to sort information Students will know how to interpret a Venn diagram to find probabilities Extension – Students will know how to use Set Notation	Venn Diagram - a diagram representing mathematical or logical sets as circles within an enclosing rectangle (the universal set), common elements of the sets being represented by intersections of the circles. Intersection — A point, area or line that is common to two or more things. For a Venn diagram the intersection is the overlap between the two circles	Students should know how to sort information into a simple Venn diagram Students should know how to find the probability of an event	