



Knowledge Rich Curriculum Plan

Year 12/13 - Stats - Probability





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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment		
	Students will know that		In order to know this students, need to already know that			
Lo : To learn how to find probabilities from a Venn diagram and To learn about mutually exclusive and independent events.	 Students will know that Students will know that a Venn diagram can contain frequency's or probabilities. Students will be able to find probabilities from a Venn diagram. Students will be able to draw Venn diagrams of multiple variables. Students will be able to solve problems involving venn diagrams. Students will know that for mutually exclusive events P(A and B) = P(A) + P(B) Students will know that for independent events P(A and B) = P(A) x P(B) Students will know how to use the multiplication rule to determine if events are independent. Students will be able to interpret Venn diagrams of mutually exclusive events. Students will be able to use the formulas to solve problems. 	Mutually exclusive – Events that have no outcome in common. Independent events – When one event has no effect on the other.	In order to know this students, need to already know that Students will need to know how to draw and interpret two variable Venn diagrams. Students will need to know how to draw and interpret two variable Venn diagrams.			
To learn how to use conditional probability	 Students will know that P(B A) is the probability that B occurs given that A has already occurred. Students wil know that for independent events P(A B) = P(A B') =P(A) and P(B A) = P(B A')=P(B) and this can be used to determine independence. Students will be able to solve conditional probability from a sample space. Students will know how to calculate conditional probability from a Venn diagram Students will be able to draw a Venn diagram, given information about probability. 		Students will need to have knowledge of set notation. Students will need to be able to find probability Students will draw sample spaces and bipartite tables. Students will need to have knowledge of set notation. Students will need to be able to find probability Students will need to know how to construct probability from a venn diagram.	To learn how to use conditional probability		
To learn how to use the probability formulae to find conditional probability.	 Students will need to that the addition formula for conditional probability is P(AU B = P(A) + P(B) - P (A ∩ B) Students will know that the multiplication formula is P(B A) = P(B ∩ A) so P(A) P(B ∩ A) = P(B A) = P(A0 Students will need to use the formula to find missing values 		Students will need to have knowledge of set notation. Students will need to be able to find probability Students will need to know how to construct probability from a venn diagram.			



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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment	
LO: To learn how to use tree diagrams	 Students will know that Students will know that a tree diagram can be used to show the outcome of two or more happening in succession. Students will know how to interpret tree diagrams. Students will know how to draw tree diagrams that show two or more events. Students will know how to use formula to solve tree diagram problems. Students will know how to find probability from a tree diagram. 		In order to know this students, need to already know that Students will need to know that for mutually exclusive events P(A and B) = P(A) + P(B) Students will need to know that for independent events P(A and B) = P(A) x P(B)		