



## Knowledge Rich Curriculum Plan

Year 7 Support – Probability





Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
Lesson/Learning Sequence	Students will know that	Tiered Vocabulary		Assessment
	Students will know that		In order to know this, students need to already	, and the second
			know that	
To learn how to describe and	• Students will know how to represent an approximate probability on a probability scale.	<b>Probability</b> - the extent to which an event	• Students need to know how to order fractions	Mini-Assessment 14
represent probabilities.	• Students will know how to distinguish between events which are impossible, unlikely, even	is likely to occur, measured by the ratio of	Students need to know how to order decimals	
	chance, likely, and certain to occur. Students will know that impossible is represented by 0,	the favourable cases to the whole number		
	even chance by 0.5 and certain by 1.	of cases possible.		
	• Students will know how to accurately represent probabilities on a 0-1 probability scale. For			
	example the probability of throwing a head on a fair coin is 0.5 and is represented in the			
	middle of the number line.			
	• Students will know how to write probabilities in words or fractions, decimals and			
	percentages; for example unlikely can be represented as 25%, 0.25 and ¼.			
To learn how to determine	• Students will know how to find the probability of an event.		Students need to know how to write one	Mini-Assessment 14
the probability of an event.	• Students will know how to find probabilities using the 'OR' rule by adding simple		amount as a fraction of another.	
	probabilities.			
	• Students will know that to calculate the probability of an event not occurring you need to			
	subtract the given probabilities from 1.			
	• Students will know that all probabilities add to give 1 or 100%.			
	, and a second s			
To learn how to list all the	• Students will know how to list all of the outcomes for events systematically to find	Systematically – according to a fixed plan	Students need to know how to list all of the	Mini-Assessment 14
outcomes for events.	probabilities.	or system; methodically.	outcomes of a single event	
	probabilities.			
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To learn how to use sample	• Students will know how to construct and use sample space diagrams to find probabilities.		• Students need to know how to list the possible	Mini-Assessment 14
space diagrams.			outcomes for combined events systematically.	
To learn how to complete	• Students will know how to complete a partially completed frequency tree and use it to find	Frequency Tree — a diagram used to show	Students need to know how to use column	Mini-Assessment 14
and use a frequency tree to	a frequency and/or calculate probabilities.	how a group of people/things can be	addition and subtraction	
find probabilities.	Students will know how to complete a drawn frequency tree from given information and	broken up into certain categories		
	use it to find a frequency and calculate probabilities.			
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	Opportunity for challenge:			
	• Students will know to complete frequency trees for more complex problems.			