

School of Education

Senior Mathematics Curriculum and Methodology A

Mathematics	Topic: Probability
Term 2 2018	03MA1A

Lesson Plan

Week 9: Friday, Lessons 5-6 (80 mins)

Topic Details	Previous lesson (prior knowledge)
Tree diagrams, venn diagrams, and two-way tables. Intersections and Unions, the addition rule and conditional probabilities.	In the previous lesson they starting working on the booklet of worksheets I handed out (see attached, solutions also attached). These contain questions covering a wide variety of probability questions accross the whole (2 week) topic.

Learning Intentions

Students will:

- Understand what is required from them to achieve a 4 in the probability test next week.
- Be able to identify what probability questions are asking them to do by looking for certain key words/ phrases.
- Be able to access to a comprehensive list of knowledge required for the probability topic.

Time (mins)	Teacher Activity	Student Activity	Resources
5min	Take the role	Settling down.	
5min	Ask the class if there is a particular concept from the previous class they would like me to go through, and if anyone answers go through that concept again.	Suggesting concepts they would like me to revise.	Whiteboard
5min	Go through the three-step process required to answer Level	Sitting, listening, participating.	Whiteboard, Handwritten



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	1-4 questions: formula, substitute, simplify, with an example. Explain that if students can master this, they will be able to get a 4 on the test, and that the remainder of the material is what is required to get better than a 4. Emphasise this point.		summary, see photo below.
20-25min	Providing one-on-one support.	Working through worksheet questions.	Attached worksheets (solutions also attached).
5min	Go through some key points about constructing and interpreting diagrams, specifically: - In a Venn diagram to include the box, and that there can be people/items/eve nts outside the circles In a tree diagram that final outcome probabilities can be calculated by multiplying together the probabilities along that branch.	Sitting, listening, participating.	Whiteboard, Handwritten summary, see photo below.
40min	Providing one-on-one support.	Working through worksheet questions.	Attached worksheets (solutions also attached).



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Evaluation/Assessment

Asking for student participation by asking for answers to scenarios, and then mostly through one-on-one observation of student work and asking leading questions during one-on-one support.

Handwritten summary (to be uploaded to Daymap):

Level # 1
Anuser greations like: "Determine the probability of" or "What is the probability of"
"What is the probability of"
using a 3-step process: Lormula, substitute, simplify,
d "How many" (count).
Level 5-84
* Be alle to construct & interpret
Nous Viagrams (include box of the aure of con comment
· Tree Diagrams (calculate final protobilities by multiplying)
Tree Diagrams (calculate final protabilities by multiplying) Two-way tables down branches)
the 11 1 washing intersections of whoms
· Intersections, A and B, P(MID)
"Unions, "A or B", P(AUB) (B) "Negation, "not A", P(A')
· Negation, "not A", P(A')
"only A", means A but not B, P(A) B') AB'
only A", means A 6st not 15, P(A) B)
The state of the second state of the state o
The Addition Rule (P(AUB) = P(A)P(B)-P(Anoldminumally)
is a special esse of may to calculate unions.
*Mutually exclosure events" one events whose intersection is empty
be able to masfind conditional probabilities: questions phrased
"If is retented from A, find the probability of B",
P(D A) = #A
*Independent events are those that satisfy P(ANB)=P(A)P(B)
1 Independent events are those of
* : Key Points
* : Key Points * Less critical points.
1 ress critical papers