

INTEGRATED MATH 2 - KEY OBJECTIVES

PROBABILITY & SETS

WHAT:

Calculate Probabilities:

- Use the results of an experiment to calculate observed probabilities. (Section 11A)
- Use tabled data to calculate probabilities. (Section 11B)
- Use Venn diagrams, tree diagrams, lists and grids to represent outcomes of combined events. (Sections 11C, 11D, 11F)
- Calculate probabilities of single and compound events. (Sections 11C, 11D, 11E, 11F)
- Construct tree diagrams to represent outcomes involving sampling with and without replacement, and use these diagrams to calculate probabilities. (Section 11G)
- Distinguish between mutually exclusive and non-mutually exclusive events. (Section 11H)
- Solve problems involving conditional probability. (Section 11I)

Use Set Notation:

- Understand and apply the following symbols: \cap , \cup , \subset , $\not\subset$, \in , \notin , ε , A' , $n(A)$, \emptyset
- Understand and use the terms 'element', 'intersection', 'union', 'subset', 'complement', 'empty set', 'universal set'.
- Create and interpret Venn Diagrams, in conjunction with the symbols above. (The above objectives are covered in Sections 1A, 1C, and 1D of your MYP5+ book.)

WHY:

How can we use math to help us make wise choices?



How does knowing the likelihood of an event affect our day-to-day lives?

