

Learning Intentions

Year 10

Unit: Handling Data

Stage: Probability

At the end of this unit **all** pupils should be able to:

- Calculate the probability of a single event occurring in cases where all possible outcomes are equally likely
- Calculate the probability of a complimentary event
- List all possible outcomes for given events
- Calculate relative frequency and use this to estimate probability

At the end of this unit **most** pupils should be able to:

- Calculate the probability of two independent events occurring, from a given sample space
- Calculate the number of times an event is likely to occur, given the probability and the number of trials

At the end of this unit **some** pupils should be able to:

- Calculate the probability of two independent events occurring, from the multiplication law
- Complete a relative frequency table and plot a relative frequency graph
- Find relative frequency from a graph and use it to deduce frequency
- Illustrate combined probability using a tree diagram
- Calculate the probability of a combined event given the probability of two independent events using a tree diagram

St. Patrick's High School Keady

Mathematics Department

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Stage: Statistical Measure

At the end of this unit **all** pupils should be able to:

- Calculate the mean from an ungrouped frequency table
- Find the mode from an ungrouped frequency table
- Find a mean, mode, median and range from a stem and leaf diagram
- Find the missing values for a given average
- Compare to sets of data

At the end of this unit **most** pupils should be able to:

- Find the median from an ungrouped frequency table
- Calculate the mean from a grouped frequency table
- Find the modal and median group from a grouped frequency table

At the end of this unit **some** pupils should be able to:

- Identify the median, upper quartile, lower quartile from a given cumulative frequency diagram
- Calculate the interquartile range from a given cumulative frequency diagram
- Draw a box plot from a given cumulative frequency diagram

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Stage: Statistical Representation

At the end of this unit **all** pupils should be able to:

- Read and interpret two-way tables
- Complete a two-way table
- Construct a grouped frequency table for discrete data

At the end of this unit **most** pupils should be able to:

- Draw a pie chart from a given frequency table
- Draw a scatter graph from a table
- Recognise types of correlation in a scatter graph
- Read values from a given scatter

At the end of this unit **some** pupils should be able to:

- Construct a grouped frequency table for continuous data
- Measure and use the angle of a pie chart to calculate the percentage share
- Identify how similar graphs can be misleading