St. Patrick's High School Keady

Mathematics Department

Learning Intentions

YEAR 8

Unit: Handling Data

Stage: Statistical Representation

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

- Read and interpret bar charts
- Read and interpret pictograms
- Construct a tally table for discrete data
- Draw a bar chart
- Draw a pictogram

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

- Interpret simple pie charts
- Draw and label x and y axis with positive and negative numbers
- Plot and label co-ordinates in all four quadrants

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Unit: Handling Data

Stage: Statistical Measure

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

- Calculate the mean from a list of discrete data
- Calculate the range from a list of discrete data
- Calculate the mode from a list of discrete data
- Calculate the median from a list of discrete data with an odd number of values

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

- Calculate the median from a list of discrete data with an even number of values
- Compare two sets of data using averages and range
- Interpret and analyse discrete data from a table or graph

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

- Calculate missing value(s) from a given average
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Unit: Handling Data

Stage: Probability

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

- Use appropriate vocabulary to describe the likelihood of an event occurring
- Recognise that 0 and 1 are the limits of the probability scale and that all probabilities lie between 0 and 1 inclusive
- Calculate the probability of a single event occurring in cases where all the possible outcomes are equally likely

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

- Calculate the probability of a complimentary event
- List all possible outcomes for given events

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

- Calculate relative frequency and use this to estimate probability
- Calculate the number of times an event is likely to occur, given the probability and the number of trials