St Patrick's High School Keady

Mathematics Department

Learning Intentions

YEAR 9

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

St Patrick's High School Keady

Mathematics Department

Learning Intentions

YEAR 9

Unit: Handling Data

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

St Patrick's High School Keady

Mathematics Department

Learning Intentions

YEAR 9

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 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