

Year 7 Data 1 – Collecting Data, Frequency and Two Way Tables, Averages, Presenting and Interpreting Data

	Knowledge, Skills, Understanding
Higher	<p>Pupils/I:</p> <ul style="list-style-type: none"> • Identify problems with different sampling techniques • Calculate the mean from a grouped frequency table • Find the median from a frequency table • Appreciate the limitations of different statistics (mean, median, mode, range) • Choose appropriate graphs or charts to represent data
Intermediate	<p>Pupils/I:</p> <ul style="list-style-type: none"> • Designing data collection sheets • Identify problems with sample size • Calculate missing values in two way tables • Understand the mode and median as measures of typicality (or location) • Use the mean to find a missing number in a set of data • Find the mode from a frequency table • Understand the range as a measure of spread (or consistency) • Calculate the mean from a frequency table • Analyse and compare sets of data • Construct pie charts when the total frequency is not a factor of 360 • Construct and interpret vertical line charts
Foundation	<p>Pupils/I:</p> <ul style="list-style-type: none"> • Understand the meaning of 'average' as a typicality (or location) • Choose an appropriate approximation when required • Collect data using frequency tables/tally charts • Know the meaning of categorical data • Know the meaning of discrete data • Interpret and construct frequency tables • Use and interpret two way tables • Find the mode of set of data • Find the median of a set of data • Find the median of a set of data when there are an even number of numbers in the data set • Calculate the range of a set of data • Construct and interpret pictograms (bar charts, tables) and know their appropriate use • Construct and interpret comparative bar charts • Interpret pie charts and know their appropriate use • Construct and interpret vertical line charts

NB: direct command = knowledge, 'can'= understanding, 'able to'=skills