

**GCSE UNIT SUMMARY: UNIT 7: Statistics, sampling and the averages**

Unit Description	Taught	Revision Priority
Specify the problem and: plan an investigation; decide what data to collect and what statistical analysis is needed; consider fairness;		
Recognise types of data: primary secondary, quantitative and qualitative;		
Identify which primary data they need to collect and in what format, including grouped data;		
Collect data from a variety of suitable primary and secondary sources;		
Understand how sources of data may be biased and explain why a sample may not be representative of a whole population;		
Understand sample and population.		
Calculate the mean, mode, median and range for discrete data;		
Interpret and find a range of averages as follows: median, mean and range from a (discrete) frequency table; range, modal class, interval containing the median, and estimate of the mean from a grouped data frequency table; mode and range from a bar chart; median, mode and range from stem and leaf diagrams; mean from a bar chart;		
Understand that the expression 'estimate' will be used where appropriate, when finding the mean of grouped data using mid-interval values;		
Compare the mean, median, mode and range (as appropriate) of two distributions using bar charts, dual bar charts, pictograms and back-to-back stem and leaf;		