

Statistics - Curriculum Map

I can...

Grade 1 & 2

- identify the mode
- calculate the range
- find the mode and the range for up to 10 data items
- interpret two sets of data by looking at the mode
- find the modal class for grouped data
- find the modal group from a grouped bar chart
- interpret bar charts and line graphs and find the mode.

Grade 3

- identify positive and negative correlation from a scatter graph.
- interpret a scatter graph to comment on the relationship between two variables
- work out a missing data set given the averages and range
- draw, interpret and draw conclusions from compound bar charts
- draw, interpret and draw conclusions from compound Pie charts
- interpret data from a line graph
- compare two distributions using the range, mode, median and mean
- calculate the mean from a simple frequency table
- make comments about a data distribution

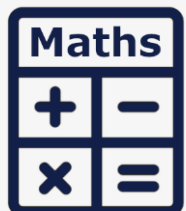
Grade 4

- interpret graphs, diagrams and tables and draw inferences to support/cast doubt on conjectures (Pie-charts, Bar Charts, Line Graphs)
- identify misleading graphs and give reasons why they are misleading
- calculate an estimate of the mean of a set of grouped data
- compare two distributions using the shape of the distributions
- find a set of values given different averages and the range
- find the modal class of a large set of data

Grade 5 & 6

- estimate the median of a grouped data from a table
- estimate the median of a set of grouped data
- estimate the mean from a frequency polygon
- estimate the median from a frequency polygon
- find the interquartile range from a set of data
- find the upper and lower quartile from a set of data and from a cumulative frequency graph
- interpret graphs and charts, draw conclusions by using a variety of statistical measures, and write a statistical report

Autumn 2



Probability Curriculum Map

I can...

Grade 1 & 2

- identify a probability line with impossible and certain at the end.
- use the words; impossible, certain likely and unlikely to describe the probability of an event happening.

Grade 3

- write a probability as a fraction, decimal and percentage.
- represent probability on a scale from 0 to 1.
- + I know that the sum of all probabilities add up to 1
- find the probability of an event not happening. (using $1 - p$)
- + Use experimental data to estimate probabilities and expected frequencies.
- + I understand what it is meant by bias.

Grade 4

- calculate theoretical probabilities and expected frequencies using the idea of equally likely events.
- compare theoretical probabilities with experimental probabilities.
- recognise mutually exclusive events and exhaustive events.
- use venn diagrams to record outcomes and calculate probabilities
- +Construct Probability space diagrams and use to calculate probabilities
- + I understand and can use intersection, union and complement notation.
- shade the correct region in a venn diagram based on probability notation.

Grade 5 & 6

- use tree diagrams to calculate two independent events.
- use tree diagrams to calculate conditional probabilities

Autumn 2

