

## Maths Objectives – Statistics

Key Stage	Objective	Child Speak Target
KS 1 Y1		
KS 1 Y2	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.	<i>I can read and construct picture graphs, tally charts and tables.</i>
KS 1 Y2	Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.	<i>I can sort objects into categories and tell you how many objects are in each category and show which category has the most.</i>
KS 1 Y2	Ask and answer questions about totalling and comparing categorical data.	<i>I work on sorting objects and can answer questions about the groups of objects I have sorted.</i>
KS 2 Y3	Interpret and present data using bar charts, pictograms and tables.	<i>I can answer questions about bar charts, pictograms and tables and make my own bar charts, pictograms and tables.</i>
KS 2 Y3	Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	<i>I can answer maths problems such as 'How many more?' and 'How many fewer?' by finding the information in bar charts, pictograms and tables.</i>
KS 2 Y4	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.	<i>I can take continuous and discrete data and create a bar chart or time graph.</i>
KS 2 Y4	Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.	<i>I can solve comparison, sum and difference problems using information in bar charts, pictograms, tables and other graphs.</i>
KS 2 Y5	Solve comparison, sum and difference problems using information presented in a line graph.	<i>I can solve problems using a line graph to find the answers.</i>
KS 2 Y5	Complete, read and interpret information in tables, including timetables.	<i>I can find the information I need from a timetable or large table of data.</i>
KS 2 Y6	Interpret and construct pie charts and line graphs and use these to solve problems.	<i>I can use and construct pie charts and line graphs and use these to solve problems.</i>
KS 2 Y6	Calculate and interpret the mean as an average.	<i>I can calculate the mean as an average.</i>
KS3	Record, describe and analyse the frequency of outcomes of simple probability experiments involving randomness, fairness, equally and unequally likely outcomes, using appropriate language and the 0-1 probability scale.	
KS3	Understand that the probabilities of all possible outcomes sum to 1.	
KS3	Enumerate sets and unions/intersections of sets systematically, using tables, grids and Venn diagrams.	
KS3	Generate theoretical sample spaces for single and combined events with equally likely, mutually exclusive outcomes and use these to calculate theoretical probabilities.	
KS3	Describe, interpret and compare observed distributions of a single variable through: appropriate graphical representation involving discrete, continuous and grouped data; and appropriate measures of central tendency (mean, mode, median) and spread (range, consideration of outliers).	
KS3	Construct and interpret appropriate tables, charts, and diagrams, including frequency tables, bar charts, pie charts, and pictograms for categorical data, and vertical line (or bar) charts for ungrouped and grouped numerical data.	
KS3	Describe simple mathematical relationships between two variables (bivariate data) in observational and experimental contexts and illustrate using scatter graphs.	