Stage 6	Stage 7	Stage 8/Foundation	Stage 9/FH	Stage 1
interpret and construct pie charts and line graphs and use these to solve problems	interpret and construct tables, charts and diagrams, including frequency tables, bar charts, pie charts and pictograms for categorical data, vertical line charts for ungrouped discrete numerical data and know their appropriate use	use and interpret recognise correlations scatter graphs of bivariate data	tion interpret and construct tables, charts and diagrams, including tables and line graphs for time series data and know their appropriate use draw estimated lines of best fit; make	construct and interpret dia data and continuous data, graphs, and know their app interpret, analyse and compare the o
calculate and interpret the mean as an average	interpret, analyse and compare the distributions of data sets from univariate empirical distributions through appropriate measures of central tendency (median, mean, mode and modal class) and spread (range)	interpret, analyse and compare the distributions data sets from univariate empirical distributions through appropriate graphical representation in ing discrete, continuous and grouped data	s of ; ivolv- interpolate and extrapolate apparent trends whilst knowing the dangers of so doing	interpret, analyse and compare from univariate empirical distri measures of central tendency in <b>quartile range</b>
		apply statistics to describe a popula	ation	infer properties o

record describe and analyse the frequen- cy of outcomes of probability experiments using tables and frequency trees	apply ideas of randomness, fairness and equally likely events to calculate expected outcomes of multiple future experiments			
relate relative expected frequencies to theoretical probability, using appropriate language and the 0 - 1 probability scale	enumerate sets and combinations of sets systematically, using tables, grids, Venn diagrams			
construct theoretical possibility spaces for combined experiments with equally likely outcomes and use these to calculate theoretical probabilities				
apply the property that the probabilit sum to one; apply the property that the	ies of an exhaustive set of outcomes he probabilities of an exhaustive set			

of mutually exclusive events sum to one

enumerate sets and combinations of sets systematically, using tree diagrams

understand that empirical unbiased samples tend towards theoretical probability distributions, with increasing sample size

calculate the probability of independent and dependent combined events, including using tree diagrams and other representations, and know the underlying assumptions calculate and interpret conditional probabilities through representation using expected frequencies with twoway tables, tree diagrams and Venn diagrams.

**Statistics and Probability** 

## .0/Higher

agrams for grouped discrete , i.e. cumulative frequency opropriate use

e distributions of data sets from nrough appropriate graphical repreuous and grouped data, including box

e the distributions of data sets ibutions through appropriate including quartiles and inter-

infer properties of populations or distributions from a sample, whilst knowing the limitations of sampling Stage 11/Higher+

construct and interpret diagrams for grouped discrete data and continuous data, i.e. histograms with equal and unequal class intervals and know their appropriate use

Representing data

Statistical enquiry

Probability