



Curriculum Plans – Year 12 – Statistics 1

Please find below a detailed outline of the curriculum covered in Statistics 1 through Year 12 in key stage 5.

BLOCK	1	2	3	4	5	6	
Dates	28th August - 27th September (5 weeks)	2nd October - 27th October (4 weeks)	6th November - 15th December (6 weeks)	3rd January - 2nd February (5 weeks)	12th February - 22nd March (6 weeks)	2nd April - 26th April (4 weeks)	
Topics	Representation of data i) Types of data ii) Representation of discrete data iii) Representation of continuous iv) Comparing different data representation Measures of central tendency i) The mode and modal class ii) The mean iii) The median	Measures of variation i) The range ii) The interquartile range and percentiles iii) Variance and standard deviation Probability i) Experiments, events and outcomes ii) Mutually exclusive events and the addition law iii) Independent events and the multiplication law iv) Conditional probability	Permutations and Combinations i) The factorial function ii) Permutations iii) Combinations iv) Problem solving with permutations and combinations	Probability Distributions i) Discrete random variables ii) Probability distributions iii) Expectation and variance of a discrete random variable The binomial and geometric distributions i) Binomial distribution ii) Geometric distribution	The Normal Distribution i) Continuous random variables ii) The Normal Distribution iii) Modelling with normal distribution iv) The normal approximation to the binomial distribution	Examination preparation	
Assessments	End of chapter assessments	End of chapter assessments	End of chapter assessments	Mock Examination	End of chapter assessments	External examination	
Academic Theme	Planning for Tomorrow	The World around us	Better Together	The Working World	Opportunities for Everyone	Keep it Green, Keep it Clean	Healthy Body, Healthy Mind