



## Curriculum Plans – Sixth Form Statistics 2

Please find below a detailed outline of the curriculum covered in Statistics 1 through Year 12 and 13 in Sixth Form Mathematics.

### Year 12/13

Block 1	Block 2	Block 3	Block 4	Block 5	Block 6
<b>Representation of data</b>  i) Types of data ii) Representation of discrete data iii) Representation of continuous iv) Comparing different data representation  <b>Measures of central tendency</b>  i) The mode and modal class ii) The mean iii) The median	<b>Measures of variation</b>  i) The range ii) The interquartile range and percentiles iii) Variance and standard deviation  <b>Probability</b>  i) Experiments, events and outcomes ii) Mutually exclusive events and the addition law iii) Independent events and the multiplication law iv) Conditional probability	<b>Permutations and Combinations</b>  i) The factorial function ii) Permutations iii) Combinations iv) Problem solving with permutations and combinations	<b>Probability Distributions</b>  i) Discrete random variables ii) Probability distributions iii) Expectation and variance of a discrete random variable  <b>The binomial and geometric distributions</b>  i) Binomial distribution ii) Geometric distribution	<b>The Normal Distribution</b>  i) Continuous random variables ii) The Normal Distribution iii) Modelling with normal distribution iv) The normal approximation to the binomial distribution	<b>Examination preparation</b>
<b>End of chapter assessments</b>	<b>End of chapter assessments</b>	<b>End of chapter assessments</b>	<b>Mock Examination</b>	<b>End of chapter assessments</b>	<b>External examination</b>