



Curriculum Plans – Year 13 - Statistics 2

Please find below a detailed outline of the curriculum covered in Statistics 2 through Year 13 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	<p>Hypothesis testing</p> <p>i) Introduction to hypothesis testing</p> <p>ii) One-tailed and two-tailed hypothesis test</p> <p>iii) Type I and Type II errors</p>	<p>The Poisson distribution</p> <p>i) Introduction to the Poisson distribution</p> <p>ii) Adapting the Poisson distribution for different intervals</p> <p>iii) The Poisson distribution an approximation to the binomial and Poisson distribution</p> <p>iv) Hypothesis testing with the Poisson distribution</p>	<p>Linear combinations of random variable</p> <p>i) Expectation and variance</p> <p>ii) Sum and difference of independent random variables</p> <p>iii) Working with normal distributions</p> <p>iv) Linear combinations of Poisson distributions</p>	<p>Continuous random variables</p> <p>i) Introduction to continuous random variables</p> <p>ii) Finding the median and other percentiles of a continuous random variable</p> <p>iii) Finding the expectation and variance</p> <p>Sampling</p> <p>i) Introduction to sampling</p> <p>ii) The distribution of sample means</p>	<p>Estimation</p> <p>i) Unbiased estimates of population mean and variance</p> <p>ii) Hypothesis testing of the population mean</p> <p>iii) Confidence intervals for population mean</p> <p>iv) Confidence intervals for population proportion</p>	<p>Examination preparation</p>	
Assessments	End of unit assessment	End of unit assessment	End of unit assessment	Mock examination	Final Mock examination	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