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	August - September (5 weeks)	October (4 weeks)	November - December (6 weeks)	January - February (5 weeks)	February - March (6 weeks)	April (4 weeks)	
Topics	**Hypothesis testing** i) Introduction to hypothesis testing ii) One-tailed and two-tailed hypothesis test iii) Type I and Type II errors	**The Poisson distribution** i) Introduction to the Poisson distribution ii) Adapting the Poisson distribution for different intervals iii) The Poisson distribution an approximation to the binomial and Poisson distribution iv) Hypothesis testing with the Poisson distribution	**Linear combinations of random variable** i) Expectation and variance ii) Sum and difference of independent random variables iii) Working with normal distributions iv) Linear combinations of Poisson distributions	**Continuous random variables** i) Introduction to continuous random variables ii) Finding the median and other percentiles of a continuous random variable iii) Finding the expectation and variance **Sampling** i) Introduction to sampling ii) The distribution of sample means	**Estimation** i) Unbiased estimates of population mean and variance ii) Hypothesis testing of the population mean iii) Confidence intervals for population mean iv) Confidence intervals for population proportion	**Examination preparation**	
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