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	August - September **(5 weeks)**	October - October **(4 weeks)**	November - December **(6 weeks)**	January - February **(5 weeks)**	February - March **(6 weeks)**	April - 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