



Year 13 Statistics Learning Journey

Curriculum Journey – Y13 Statistics

When?	Chapter	Key Learning Objectives Key Questions	Unit Assessment
HALF TERM 1	Ch 1. Regression, correlation and hypothesis testing	<ul style="list-style-type: none"> • Understand exponential models in bivariate data • Use a change of variable to estimate coefficients in an exponential model • Understand and calculate the product moment correlation coefficient • Carry out a hypothesis test for zero correlation 	EOC 1 Test covering <ul style="list-style-type: none"> • exponential models • product moment correlation coefficient • hypothesis test for zero correlation
HALF TERM 3	Ch 2 Conditional probability	<ul style="list-style-type: none"> • Understand set notation in probability • Understand conditional probability • Solve conditional probability problems using two-way tables and Venn diagrams • Use probability formulae to solve problems • Solve conditional probability using tree diagrams 	EOC 2 Test covering <ul style="list-style-type: none"> • set notation • conditional probability • two-way tables • Venn diagrams • tree diagrams • conditional probability
HALF TERM 5	Ch 3 The normal distribution	<ul style="list-style-type: none"> • Understand the normal distribution and the characteristics of a normal distribution curve • Find percentage points on a standard normal curve • Calculate values on a standard normal curve • Find unknown means and/or standard deviations for a normal distribution • Approximate a binomial distribution using a normal distribution • Select appropriate distributions and solve real-life problems in context • Carry out a hypothesis test for the mean of a normal distribution 	EOC 3 Test covering <ul style="list-style-type: none"> • normal distribution • percentage points • values on a standard normal curve • unknown means and/or standard deviations • Approximate a binomial distribution using a normal distribution • hypothesis test for the mean of a normal distribution

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HALF TERM 4	Ch 4 Correlation	<ul style="list-style-type: none"> • Draw and interpret scatter diagrams for bivariate data • Interpret correlation and understand that it does not imply causation • Interpret the coefficients of a regression line equation for bivariate data • Understand when you can use a regression line to make predictions 	EOC 4 Test covering <ul style="list-style-type: none"> • scatter diagrams • Interpret correlation • Interpret the coefficients of a regression line • when you can use a regression line
HALF TERM 5	Ch 5 Probability	<ul style="list-style-type: none"> • Calculate probabilities for single events • Draw and interpret Venn diagrams • Understand mutually exclusive and independent events, and determine whether two events are independent • Use standard tree diagrams 	EOC 5 Test covering <ul style="list-style-type: none"> • probabilities for single events • Venn diagrams • mutually exclusive • independent events • standard tree diagrams
HALF TERM 6	Ch 6 Statistical distributions	<ul style="list-style-type: none"> • Understand and use simple discrete probability distributions including the discrete uniform distribution • Understand the binomial distribution as a model and comment on appropriateness • Calculate individual probabilities for the binomial distribution • Calculate cumulative probabilities for the binomial distribution 	EOC 6 Test covering <ul style="list-style-type: none"> • simple discrete probability distributions • discrete uniform distribution • binomial distribution • individual probabilities for the binomial distribution • cumulative probabilities for the binomial distribution