

SUBJECT: Foundation Statistics		CURRICULUM PROGRESSION PATHWAYS		CL: Miss Z. Bradshaw and Miss A. Hazell	
KS3 (Level 1)	KS4 (Level 2)	KS5 (Level 3)	Further Education and training	Careers	
→		→		→	
<p>Data</p> <ul style="list-style-type: none"> Interpret and create pictograms, bar charts, composite bar charts, line graphs and frequency tables Interpret pie charts Design data collection sheets and tables <p>Averages</p> <ul style="list-style-type: none"> Calculate mode, median range and mean of discrete data Compare sets of data using averages and range <p>Probability</p> <ul style="list-style-type: none"> Describe probabilities in words, numbers, percentages, decimals and fractions Calculate outcomes and equally likely outcomes, find the probability of something not happening Use experimental results to predict outcomes 	<p>Data</p> <ul style="list-style-type: none"> Draw and interpret composite bar charts, two-way tables, stem and leaf diagrams and pie charts Plot and interpret scatter graphs, draw and use the line of best fit to predict results and use to describe relationship/ correlation between two variables <p>Averages</p> <ul style="list-style-type: none"> Calculate averages and range from frequency tables, charts, and stem and leaf diagrams. Estimate the mean for grouped data <p>Probability</p> <ul style="list-style-type: none"> Calculate probabilities from venn diagrams and two-way tables Complete frequency trees and tree diagrams and using to calculate both independent and mutually exclusive probabilities 	<p>Core Maths Level 3</p> <p>Critical Analysis</p> <ul style="list-style-type: none"> Clarity Selectivity of data Sampling and trialing Misleading with data Critical analysis of models <p>The Normal Distribution</p> <ul style="list-style-type: none"> Features of normal distribution The standard normal distribution Calculating probabilities <p>Confidence Intervals</p> <ul style="list-style-type: none"> Quality control The sample mean Confident intervals <p>Correlation and Regression</p> <ul style="list-style-type: none"> Lines of best fit Regression lines Pearsons product moment correlation coefficient <p>Critical Path Analysis</p> <ul style="list-style-type: none"> Networks and algorithms Activity networks Early times late times Critical activities Gnatt charts <p>Expectation</p> <ul style="list-style-type: none"> Venn diagrams Probability theory Tree diagrams and conditional probability 	<ul style="list-style-type: none"> Psychology Business Sports Social sciences Natural science Engineering 	<ul style="list-style-type: none"> Psychology Business Sports Social sciences Natural science Engineering 	