Maths-GCSE Statistics

Teachers: Lee Thompson

The Maths department offer an additional qualification as a Key Stage 4 option subject. GCSE Statistics has a Foundation tier (grades 1 – 5) and a Higher tier (grades 4 – 9).

Syllabus materials KS4:

AQA | Mathematics | GCSE | Statistics

Careers in Maths:

1438_My Learning My Future_Mathematics_FINAL.pdf (careersandenterprise.co.uk)

Schemes of work:

	Autumn One	Autumn Two	Spring One	Spring Two	Summer One	Summer Two
Year 10	 Data and Tables Types of data Frequency tables Two way tables Primary/secondary data Valid/reliable experiments Sampling Sampling from a population Random/systematic sampling Sampling techniques 	Charts and Diagrams (1) Pictogram Bar charts Pie charts Time series Histogram Frequency polygon 	 Probability (1) Probability scale Probability tree diagrams Mutually exclusive events Space diagrams Averages (1) Average for discrete/grouped data Calculating mean Compare two sets of data Moving average Draw and interpret a trend line 	 Charts and Diagrams (2) Box plot Stem and leaf diagrams Interpret a population pyramid Averages (2) Seasonal variation Weighted mean Geometric mean 	 Cumulative Frequency Draw and interpret cumulative frequency diagrams Calculate mean from a cumulative table Calculate a percentile 	 Probability (2) Expected frequency Relative frequency Calculate probabilities form table Venn diagram Conditional Probability Charts and Diagrams (3) Proportional pie charts Interpret histograms of unequal class width

Ye	ar 11	Scatter diagrams, correlation	Standard Deviation, Skew and the	Statistical Enquiry Cycle	Revision	
		and regression	normal distribution	Planning		
		 Types of correlation Plot and interpret scatter graphs Line of best fit 	 Calculate standard deviation Calculate skew Properties of normal distribution 	 Data collection Processing and presentation Interpretation Evaluation and review 		