

Statistics

Students may choose to study GCSE Statistics as an option in Years 10 and 11. This option is available for students of any ability in Maths. It is also very useful for any student who may be considering whether to study A-Level Maths in Years 12 and 13. One sixth of the A-Level Maths Course is Statistics at an advanced level.

Many of the lessons in Statistics offer a much more practical approach to allow them to apply their knowledge and skills to real-life situations. Every situation will involve some part of the statistical enquiry cycle.

Students are taught how to plan a statistical investigation. They learn how to handle different type of data as well as different sampling techniques. A vast array of graphical methods of representation are covered which are not covered within the ordinary GCSE Maths curriculum. Students are also taught a wider range of measures of dispersion and central tendency. At the higher end of the course, students cover correlation including PMCC and Spearman's Rank. More advanced probability distributions are covered such as the Binomial and Normal Distributions. Other topics such as Index Numbers, RPI, CPI and GDP are taught. Students also learn how statistics is used in for Quality Assurance in industry or retail. They also are taught how to understand seasonal variation in order to predict financial trends.

Within this course, students are also given the opportunity to use ICT to help analyse large amounts of data and apply the statistical techniques mentioned above. This includes using graphical and spreadsheet software.