

A Level

STATISTICS

Course Overview

In A-Level Statistics you should be prepared to learn about analysing data to understand the world around us. The focus is on numerical analysis of real world problems. This includes topics which are relevant to the collection, collation, presentation and interpretation of data. You will also work with statistical distributions which you will not have met in GCSE maths and will use these distributions in your analysis. The course has very little algebra content.

Components of Course

In the first year students will study the topics of numerical measures, graphs and diagrams, probability, population and samples, Binomial distribution, Normal distribution, correlation and linear regression, hypothesis testing, contingency tables and one and two sample non-parametric tests. The Statistical Enquiry Cycle (SEC) will be used throughout the year. In the second year, students will look at more advanced work including experimental design, further statistical distributions and further hypothesis testing.

The course is assessed through 3 exams at the end of the second year, each 2 hours in length:

Paper 1 – Data and Probability

Paper 2 – Statistical Inference

Paper 3 – Statistics in Practice Students are required to provide a graphical/statistical calculator.

The particular model used at Cadbury is the Texas Instruments T1-30X Pro Multiview.

Planned Trips & Guest Speakers

Planned Trips

- Whitby
- Snowdonia
- Bournemouth
- Barcelona
- Italy

Guest Speakers

- Zac Vogel – Working in the Travel industry (Qantas, Emirates, Easy Jet)
- Joe Wyche – Working as a Travel rep (Thomas Cook)

Coursework /Examination

100% examination

Exam Board

Pearson Edexcel Level 3

Advanced GCE in Statistics

Entry Requirements

- Students will ideally have scored a grade 6 at GCSE. Students with a grade 5 will be considered according to their GCSE profile, and will need to have a minimum G-score of 5.0.
- A grade 4 at GCSE English Language is also required.

Employability

While many jobs may not appear to require the study of statistics, the subject can lead to many important employment skills. Students learn to solve a variety of problems, adapting their knowledge to different areas of the syllabus. Statistics is also a subject that teaches the need for clear communication. Solutions must be well presented, using correct terminology and notation.

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