

The Bourne academy is pleased to enable students to develop on their Mathematical skills at GCSE. AS level develops their interest in the subject and applications to apply mathematics to the world around them.

What will you learn?

AS Statistics is offered as a two year groups with students sitting their exams at the end of the two year course. There are numerous topics within the course

Year 1

- 1) Numerical measures, graphs and diagrams
- 2) Probability
- 3) Populations and samples
- 4) Introduction to probability distributions
- 5) Binomial distribution
- 6) Normal distribution
- 7) Correlation and Regression
- 8) Hypothesis testing

Year 2

- 9) Contingency tables
- 10) One and two sample non- parametric tests
- 11) Bayes theorem
- 12) Probability distributions

You will learn about the Statistical Enquiry Cycle (SEC) which underpins the study of Statistics. You will learn about the five stages which include:

- initial planning
- data collection
- data processing and presentation
- interpretation of results
- evaluation and review.

Throughout the course you will enhance your statistical enquiry, and practice the statistical calculations that underpin the subject. You will interpret real world data and authentic contexts. You will be able to develop cognitive, Interpersonal and Intrapersonal skills.

How will you be assessed?

Examinations:

Paper 1 (1 hr 30 mins) 60 marks worth 50%

Paper 2 (1 hr 30 mins) 60 mark worth 50%

Who to talk to

Please speak to Mrs Stobart (Director of Maths and Business). Syreeta.stobart@thebourneacademy.com

A grade 6 or higher would be required.