

# STATISTICS

## WHAT DO I NEED TO STUDY THIS COURSE?

The entry requirements for this course are grade 6 at GCSE Mathematics.

## IS THIS COURSE FOR ME?

Statistics builds nicely on prior GCSE knowledge. The statistics course compliments A level Mathematics very well as many skills will overlap. If you enjoy applying maths to real-life contexts and other subjects then statistics is definitely worth doing. If however you want to study a numerate post-16 subject but not wishing to study pure mathematics then this course is still an excellent choice. Statistics sits well with subjects such as A level Biology, psychology, Geography, Business studies and Economics.

## WHERE WILL THIS COURSE TAKE ME?

This course will help you to gain a broader mathematical understanding which will support mathematical content in other Level 3 qualifications, for example GCE Biology, Business Studies, Economics, Computing, Geography, Psychology, BTEC Applied Science, Business, Health and social care, IT. The real-life context would help you to apply your knowledge and skills towards solving problems in a huge range of careers.

## WHAT WILL I LEARN?

Topics learnt over the 2 years are:

- Numerical measures, graphs and diagrams
- Probability
- Population and samples
- Binomial distribution
- Normal distribution
- Correlation
- Bayes' theorem
- Experimental design
- Exponential and Poisson distributions
- Hypothesis testing
- Variance

## HOW WILL I BE ASSESSED?

All assessment for this course is through written examination. Each paper is equally weighted and is 2 hours long.

Paper 1: Data and Probability

Paper 2: Statistical inference

Paper 3: All content



## FURTHER INFORMATION

See Miss Parker