

# Statistics GCSE



Statistics is a collection of mathematical skills which are used to investigate and display data in various formats, bar charts, pie charts for example. Statistics is widely used to draw conclusions in many areas of everyday life and there are many benefits to studying it.

## Course Content

Collecting Data	Looks at the different types of data that can be collected, the methods of data collection, and how the chosen data collection method affects reliability and validity
Representing Data	Investigation into how to display data visually and how data can be displayed in a misleading way and how we can prevent this
Processing Data	Learn about the different calculations used to summarise data and how to remove outliers and anomalous data
Correlation and Time Series	Look at the correlation between two sets of data, and how data changes over time and the predictions that can be made
Probability	Predict the outcome of events and how this can be used in theoretical probability distributions, such as the binomial distribution, to predict real life probabilities

- Applicable in jobs such as forensic science, psychology, sociology, geography, science, economists and marketing.
- Understanding risk and decision making
- Designing and carrying out experiments
- Understanding how statistics is used in real-life
- Acquiring skills that are relevant in geography, sciences and social sciences.
- Used in sport for analysing performance. For example Premier League managers have a 'stats man' to collect data for them.



## Course Structure

Paper 1: 50%

Paper 2: 50%

## Tier Options

Foundation (Grades 1 – 5)

Higher (Grades 3 – 9)

Example Exam Papers can be found following these links below. An example of foundation and higher papers is shown.

Paper 1: <https://www.mathsgenie.co.uk/papers/stats/statssamh1.pdf>

Paper 2: <https://www.mathsgenie.co.uk/papers/stats/statssamf2.pdf>



# Frequently Asked Questions



## **How is the course examined?**

Answer: The course is made up of two exams at the end of year 11. There is no coursework involved. Any topic can come up on either exam, and each exam is worth 50% of the course.

## **Is it single or double award?**

Answer: Statistics GCSE is single award

## **Do you need to be good at Maths to be able to study the course?**

Answer: There are a lot of elements of the Statistics course that rely on the maths covered in KS3. You should feel confident in your Maths when applying to study Statistics GCSE, however any mathematical elements needed for Statistics GCSE will be taught in the Statistics lessons, so it is not a requirement to study Statistics GCSE.

## **Do you have to be a certain grade in Maths to pick GCSE Statistics?**

Answer: No, you can be any grade in Maths to choose GCSE Statistics.

## **What jobs can you do with Statistics?**

Answer: There are plenty of jobs that involve handling statistics including epidemiologist, public affairs manager, biostatistician, research psychologist, marketing and many more!

