

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 area of everyday life and there are many benefits to studying it.

Course Content

Collecting Data	Look 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)

Useful websites for Statistics GCSE

[Gcse Statistics Resources | Stats Academy](#) – great for exam style questions and revision notes.

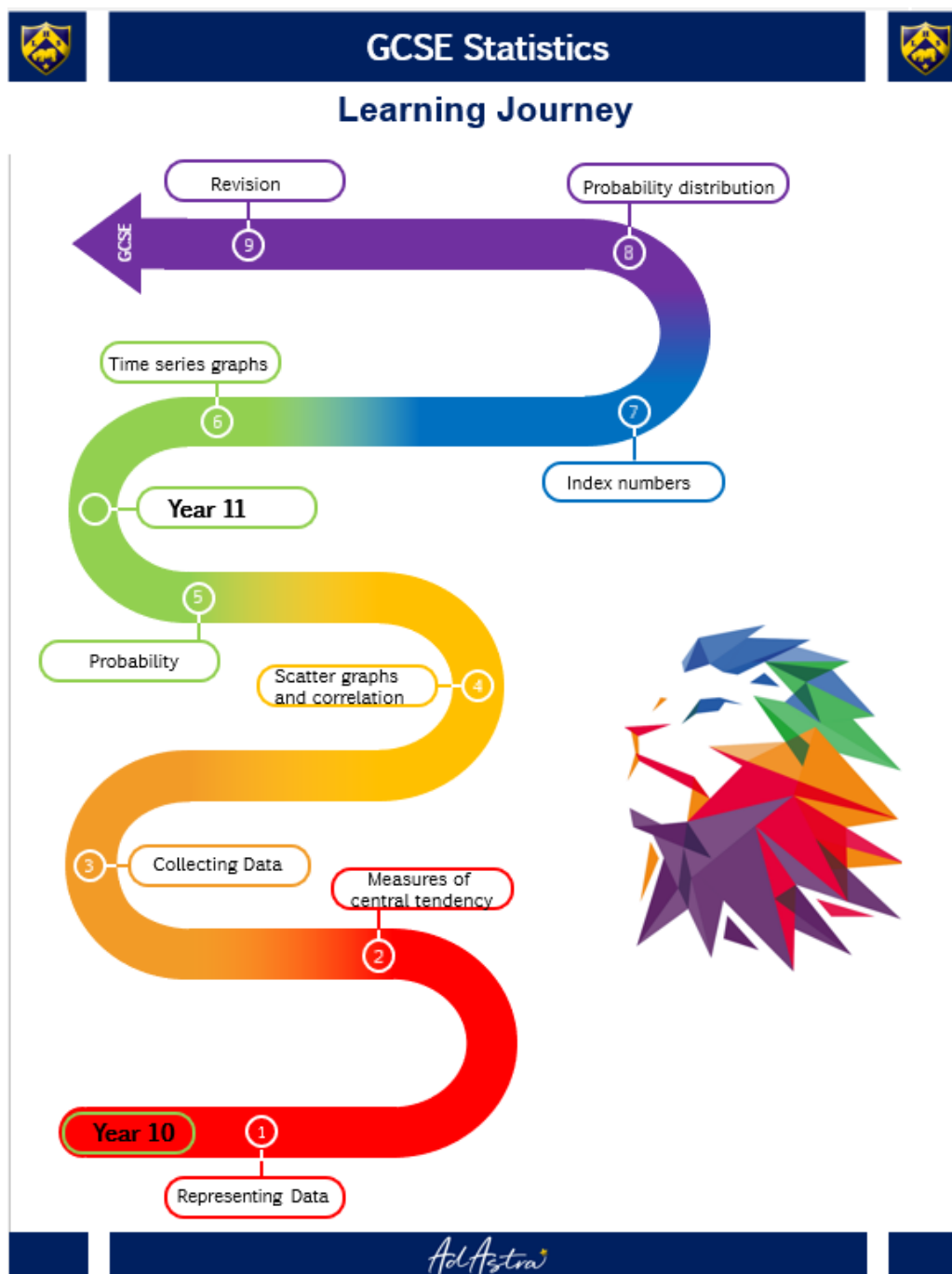
[Mrs Hodgetts' Statistics – GCSE and A Level Statistics support \(mrshodgettsstatistics.com\)](#) – good revision notes and helps put complex ideas into basic terms.

[Maths Genie - GCSE Statistics Revision](#) – some topic based exam questions but lots of past exam papers.

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

Paper 1: [Higher Paper 1](#)

Paper 2: [Higher Paper 2](#)





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.

Which exam board does the course follow?

Answer: Edexcel

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!

What are the results like at LHS for Statistics?

Answer: In 2022/23 93% of students gained a grade 4 or above. 40% gained a grade 6 or above. The SPI for this particular year was 1.15.

How can I revise for Statistics?

Answer: Do lots of practice questions and exam papers. On the previous page there are websites you can use to help you understand how to do things as well as provide you with plenty of exam papers and exam questions. If you want your teacher to mark any or go through any you did not understand, just ask.

Are there revision guides I can buy?

Answer: At the start of year 10 and year 11 you are given a letter on how to buy a revision guide and revision workbook on Parent Pay. These books are great for revision as they have a revision page and questions to match, and they follow the same scheme of work which we teach throughout years 10 and 11.

