

# STATISTICS

## INTRODUCTION

Statistics is the science, and arguably the art, of learning from data. An in-depth knowledge of statistics allows people to make well reasoned predictions about the future and make justified assumptions as to why things have happened, two skills that have never been more important. If you have an affinity for Maths and are eager to dive deeper into the subject, then a GCSE in Statistics is the right choice for you.

## THE COURSE

The course is assessed with two equally weighted exams. As with Maths, Statistics is also a subject that has Higher and Foundation tiered exam papers, with each paper offering different grade ranges. Both papers allow a calculator and consist of a mixture of questions from the following three core modules:

### Module 1: The Collection of Data

Here you will explore how to plan your statistical enquiry, different types of data, the various different sampling techniques and how to collect your data.

### Module 2: Processing, Representing and Analysing Data

Here you will delve deep into the various types of charts and graphs, measure and interpret central tendency, understand dispersion, look more closely at scatter diagrams and their correlation, identify trends in time series, and be introduced to quality assurance.

### Module 3: Probability

Here you will expand your knowledge of probability from Maths and apply it to a Statistical setting. Specifically, you will look into expected frequencies, experiment and theoretical probabilities and distributions of data.

For more information about the course, click [here](#).

## NEEDED SKILLS

To be a successful statistician, a strong understanding of Maths will be required. You will be expected to apply mathematical formulae and skills to various contexts in order to assess and discuss data and conclusions. You will encounter a lot of content that will be entirely new to you, so you must show resilience and perseverance in order to succeed.

## THE FUTURE

Statistics lies at the heart of the type of reasoning necessary to make advancements in the sciences, such as medicine and genetics, and for making important decisions in business and public policy. Potential careers include data analyst, market researcher, and finance.

For further information on Statistics, please contact Mr Elstone, Statistics Coordinator.



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