

Statistics

Head of Department

Miss H Ball

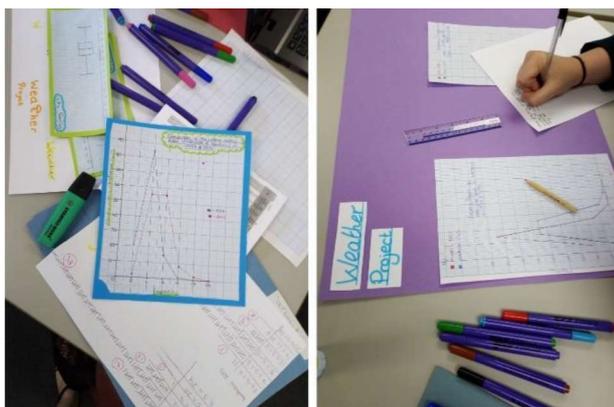
In statistics, students will have the opportunity to use statistical techniques to analyse real life data. They will be able to identify trends through carrying out calculations and data visualisation techniques. By studying this course, students will have greater opportunities in working life as many employers look for people who can analyse data.

Note that Statistics as an option course is not available to the most able maths students, as they will be studying GCSE Statistics as part of their core curriculum.

GCSE Statistics

Awarding Body: Edexcel

Possible Grades: 9-1



Course Outline

The course is split into three sections. These are the Collection of data, Processing, representing and analysing data and Probability. Students will get to explore these different areas through the use of statistical techniques in a variety of authentic investigations, using real-world data in contexts such as populations, climate and sales.

Students will have the opportunity to look at suitable ways to collect data. They will then get to explore what are appropriate sampling techniques and the benefits of each. These techniques can link to other subjects across the curriculum, such as the sciences, geography, business and psychology.

In processing, representing and analysing data, students will get to look at different types of graphs; they will understand ways that data can be organised, processed and presented, including statistical measures to compare data. Students will also get to learn how technology can be used to enable the collection, visualisation and analysis of large quantities of data to inform decision-making processes in the public, commercial and academic sectors.

Students will get to look at how calculating probabilities can help identify possible bias in experiments. They will also get to calculate the risk of real-life situations.

GCSE Statistics is a natural partner for reinforcing techniques in GCSE Mathematics

Assessment

Students will take two 90 minute examinations at the end of year 11. The papers contain short, medium and extended response questions. Questions cover statistical methods, familiar and unfamiliar contexts and the component parts of the statistical enquiry cycle. Students can use calculators in both examinations

Specification link:

<https://qualifications.pearson.com/en/qualifications/edexcel-gcses/statistics-2017.html>