GCSE
Statistics

How can we predict the magnitude of earthquakes and estimate the damage that they will cause? How can we estimate the levels of safe drinking water in war-torn countries? How many years do we have until climate change endangers us all? Many of these questions can be better understood through the collection and analysis of statistics. A GCSE in statistics gives you a wider understanding of issues of local, national and global importance. This statistics GCSE will be awarded separately from GCSE mathematics, so you end up with two GCSEs. However, many of the statistics topics appear on the mathematics course too, so your grade in mathematics may well be improved through your study of statistics.

Exam Board
Edexcel

What does this course involve?

This course is aimed at students who are in higher sets in mathematics and who will enjoy doing more mathematics.
Key features of the course are:
• using statistical techniques in real-world investigations such as population, climate, sales etc
• identifying trends through carrying out appropriate calculations and data visualisation techniques
• thinking about how we might apply statistical techniques in other subjects and outside the classroom in the world in general
• critically evaluating data
• thinking about how data can be organised, processed and presented

How will I be assessed?
100% examination

What activities and skills are used a lot in this subject?
• Using statistics
• Constructing and clearly presenting mathematical and logical arguments
• Dealing with abstract concepts
• Building on existing mathematical knowledge to develop advanced skills
• Turning real-world problems into mathematical problems
• Analysing data, finding patterns and extracting conclusions
• Investigating and problem solving

Where will this course lead me?
A good GCSE in statistics can lead to A-level study and combines
well with many other subjects
such as mathematics, business and economics.

Careers that make particular use of statistics include actuarial science, accountancy, operational research, research science and insurance.