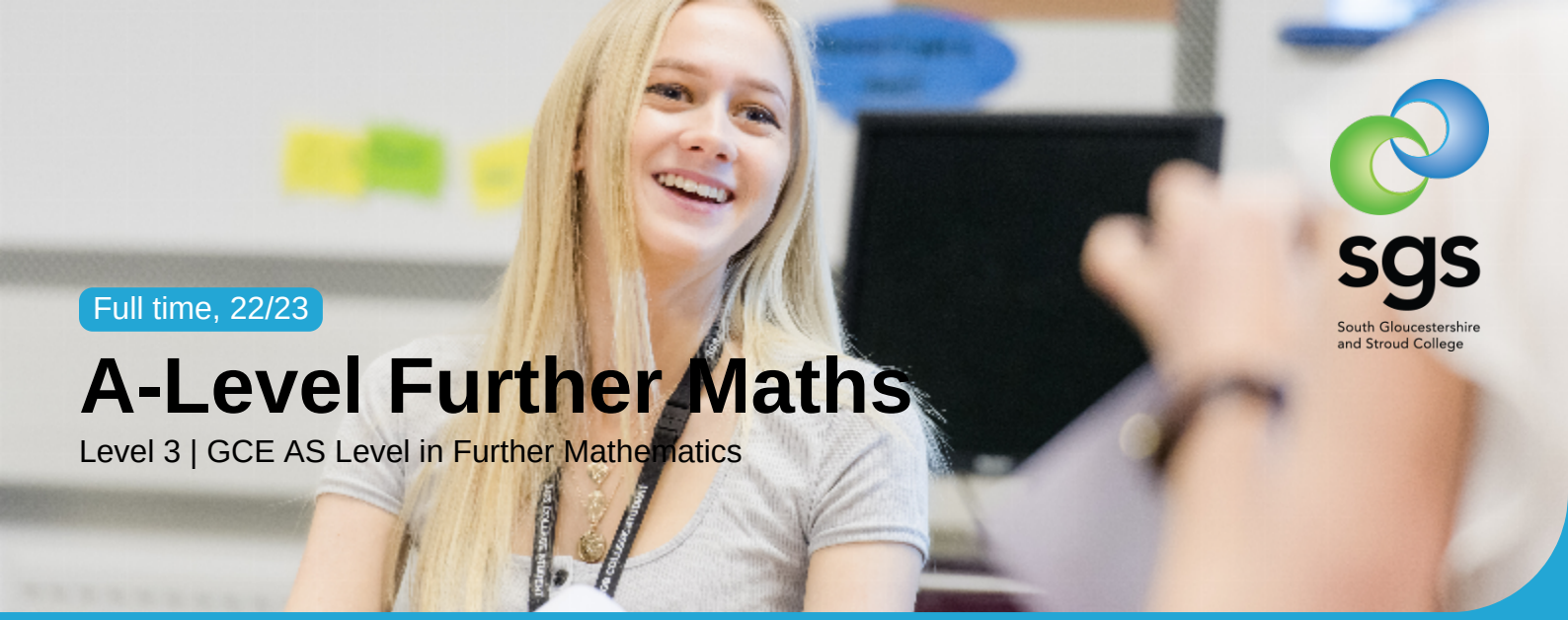

Full time, 22/23

A-Level Further Maths

Level 3 | GCE AS Level in Further Mathematics

Course information (PDF generated at 25/05/2022 07:30:11 am)
www.sgscol.ac.uk/study/alevels/alevel-further-maths

Summary

The A-Level Further Maths course is largely for those who have a real love of the subject. Students who choose Further Maths also take the Maths A-level, as there is significant overlap between the two. Over the two-year course, you will study some pure maths modules, which may include many new topics such as complex/imaginary numbers, matrices, proof by induction, differential equations and polar coordinates. Further Maths is particularly recommended for those wishing to study mathematics, engineering, physical sciences or computing at university, but it is also commonly accepted (alongside other subjects) as an appropriate qualification for entry to almost any career or degree course.

A-level Further Maths can only be studied as a fourth subject alongside A-level Maths and two other subjects.

Further Maths extends ideas from A-level Maths and as a result, the content has similarities to A-level Maths, but with extra components. Consequently, students who study Further Maths find it greatly helps their standard Maths too.

Apply online

In this course, you will study:

Pure Maths (50%)

Statistics (25%)

Mechanics (25%)

Examples of Further Pure topics are complex numbers and matrices. Complex number are based

on the imaginary number 'i' and lead to lots of new areas of Maths. Matrices are an array of numbers which can represent transformations, but also solve simultaneous equations.

Further Statistics and Further Mechanics both enforce and extend the applied Maths met in the standard A-Level.

How will I know how I am doing?

Year 1:

- Two exams, both 1 hour and 40 minutes long. One paper focuses on pure maths, the other on applied maths (statistics and mechanics).

Year 2:

- Four exams, all 1 hour 30 minutes long. Two papers focus on pure maths, one focuses on statistics and one focuses on mechanics.

What do I need to join?

Five GCSEs at grade 4–9, including English and Maths. You must also have a grade 8 in Maths and study A-level Maths. This can only be studied as a fourth subject.

How will I learn?

This A Level course is based at our Filton campus, located in South Gloucestershire which is easily accessible from the city of Bristol by train (Bristol Parkway / Bristol Abbey Wood) and bus.

Work Experience

You will be required to do a minimum of 36 hours of work experience. This is usually completed in a week during your first year in term time, where you will have the opportunity to explore a career field which takes your interest. In the lead-up to this week, you will be asked to create an exciting CV during a group tutorial period. The aim of this activity is to give you an idea of what full-time employment is like and to help you think about which career you would like to follow.

What can I do next?

There is a massive outreach for mathematicians in current industry. With the rise in new technology, the need for elite mechanical engineers, data analysts, software engineers and civil servants is skyrocketing. A-level Further Maths is a subject that can lead to an extremely successful career. The types of degree course A-level Further Maths students want heavily involve the topics covered in the subject. In modern times, this course can provide some of the most exciting jobs to date. Successful A-level Further Maths mathematicians prove to employers that they are of high performance ability. Being able to think quickly and logically is an invaluable skill that is refined in this course.