

# Maths



## A-Level and Further Maths at Southborough Sixth

In the modern world, a successful economy needs well-qualified young mathematicians, engineers, scientists, economists and computer scientists. These fields all require a high level of mathematical skills. **Mathematical ability is a priceless asset** and if you have it, make the most of it!

Interest, enthusiasm, determination and commitment are all essential if the A-level Mathematics course is to be successfully completed. In addition, evidence of competence at GCSE Mathematics is necessary and a grade 7 is regarded as the minimum requirement at Southborough.

Further Mathematics offers students a challenge and a chance to explore new and more sophisticated mathematical concepts. It is generally taken as a fourth A-level alongside three others including Mathematics. Students wishing to take Mathematics and Further Mathematics should expect to get a minimum grade 8 at GCSE Mathematics.

Mathematics can be combined with many other subjects in the Sixth Form. Popular combinations are: Maths and Further Mathematics, Maths with Sciences, Maths with Economics/Business studies, and Maths with Technology but many other combinations are possible.

University courses for those with A-level Mathematics include Sciences, all types of Engineering, Electronics, Computer Science, Medicine, Veterinary Science, Economics, Business Studies, Accountancy and of course Mathematics.

The courses are final assessment. The content of the A-level Maths courses is two thirds Pure Mathematics with the remainder being a mixture of Statistics and Mechanics. There are additional topics available to those studying Further Maths

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## **OPTION 1: A-level Mathematics ...**

...is for all those who wish to study advanced maths. It is especially good for those studying the Sciences, Economics or Geography at A level or intending to study these subjects, Engineering, Medicine or Technology at university.

## **OPTION 2: A-Level Mathematics and Further Mathematics ...**

...is for those who have a passion for maths and want to develop a wider understanding of the ways in which mathematical topics are interconnected or intending to study Mathematics or Engineering at university.

## **Maths at Southborough Sixth Form**

