Corfe Hills School

High Expectations | Exceptional Individuals

Further Mathematics

Room: LRC

What the Students Say

"Further Maths explores Maths in a lot more depth and it is interesting seeing where everyday Maths originates from. It also challenges you to think and approach problems from different angles."

"It's fascinating to learn about Mathematics in more detail, to consider totally new concepts, and to be able to relate it to real-life skills"

What Is This Course About?

The course is intended to build on knowledge, understanding and skills established at GCSE. You are expected to be able to use the material covered at GCSE which will be used to build upon further Mathematical areas. You will be regularly involved in problem solving and applying techniques to real life situations. Further Mathematicians will experience all areas of Maths and go on to study at a higher level involving topics studied in first year degree. If you intend to go on to study for a Maths or maths-related degree, it is strongly recommended that you take Further Maths as some universities will ask for it. On successful completion of the course, you will achieve two A Levels.

Entry Requirements

Grade 8 or 9 at GCSE. A genuine commitment to, and a love of, the subject is essential.

What Will I Learn?

In Core Pure, you will build on the algebra and skills learnt in Maths A Level, this includes complex numbers, matrices, vector equations and other topics that lead to topics usually covered in the first year of a maths degree. In the options, you will cover more Pure Maths that covers more calculus, Taylor series and lots of other brilliant topics that can be applied in real life situations. Decision Maths is also one of the options where you will study graphs and networks that model real life situations and linear programming, algorithms and maximising profit. These topics are really useful in computing.

Where Will It Take Me?

Students who successfully complete A Level Further Mathematics will have a suitable basis for progression to further study in Mathematics or related subjects such as Engineering, Science and Economics, or directly into employment.

Our maths students have gone on to study Mathematics and maths related degrees at university including Medicine, Engineering, Accountancy, Dentistry, Physics and Chemical Engineering.

What Other Opportunities Exist Outside of Class?

All A Level mathematics students have the opportunity to compete in the individual UKMT senior maths challenge, and we enter a team in the regional senior UKMT team Maths challenge.

Students are also invited to attend maths enrichment conferences and lectures and are welcome to attend a weekly after school workshop where they can receive help and advice from staff and work with other students.

Further maths students also participate in the Ritangle competition as a team, competing against other schools. They have to solve 2-3 problems a week for 9 weeks, with increasing difficulty, leading to a final day of problem solving.