

# A LEVEL Mathematics

## WHY STUDY THIS COURSE?

**Maths is fun!** We take a creative approach to A Level Maths – challenging problems and investigations, national Maths competitions for individual students and small teams.

**Maths is essential!** All areas of science and technology depends on Maths – whether it's building a supercomputer, researching a new cancer treatment, or designing a spacecraft.

**Maths opens doors!** Maths A Level is required for many subjects at university, including Physics, Computer Science, Engineering, Medicine, Chemistry, and others. The average Maths graduate earns an extra £250,000 over their career!

## HOW DO WE PERFORM?

In year 12 nearly 90% of students get an A-E grade, with approximately 50% A-C, but the introduction of the new specification in September 2017 will mean the majority of students will not take any Maths exams until the end of year 13.

In year 13 generally 100% of students achieve an A\*-E for A-level Mathematics, with around 70% getting an A\*-C grade.

Further Maths students do extremely well, gaining high grades in both Maths and Further Maths. We would only recommend students who really enjoy Maths and have a flair for the subject to do this.

## WHAT DOES THE COURSE ENTAIL?

We currently use the Edexcel exam board.

A-level Mathematics students focus on pure mathematics, mechanics and statistics. Further Maths students must also study A-level Mathematics and their course includes harder problems and topics in pure maths, mechanics and decision maths.

The students receive 9 hours of Mathematics lessons each fortnight and are expected to do another 5 hours themselves at home to consolidate and practice what they have been taught. We use a variety of resources that include textbooks, problem solving tasks and online websites.

Further Maths students have an additional 9 lessons per fortnight and will take twice as many exams at the end of the two year course. Therefore they get 2 A-level grades, one for Mathematics and one for Further Mathematics.

## WHERE CAN I FIND OUT MORE?

[www.thomastallisschool.com/mathematics](http://www.thomastallisschool.com/mathematics)

[www.ncetm.org.uk](http://www.ncetm.org.uk)

[www.integralmaths.org](http://www.integralmaths.org)

[www.mathstallis.weebly.com](http://www.mathstallis.weebly.com)

[www.edexcel.com/subjects/Mathematics](http://www.edexcel.com/subjects/Mathematics)

[www.nrich.maths.org/secondary-upper](http://www.nrich.maths.org/secondary-upper)