

A Level Mathematics

at The Warriner School



Mathematics A Level

Exam board: OCR – MEI specification.

Entry requirements: GCSE Mathematics at Grade 6 or above.

Assessment structure: Formal exams taken at the end of Year 13.

This consists of 3 x 2 hour papers covering the following topics:

- Paper 1: Pure Mathematics & Mechanics
- Paper 2: Pure Mathematics & Statistics
- Paper 3: Pure Mathematics & Mathematical Comprehension

Skills required:

Students who succeed with A-Level Mathematics love to persevere with a challenge; they accept that they will make mistakes and are happy to use these to improve their understanding. They develop both a logical and a creative approach to problem solving and are driven not only to find solutions, but to understanding why. A Level Maths has a significant algebraic element to it and fluency in techniques covered on the GCSE course is expected. These include expanding brackets, factorising expressions, solving equations (linear, quadratic and simultaneous) and rearranging equations.

Future study avenues or careers:

Mathematics is one of the most marketable A levels and it is difficult to think of any career where it would not be welcomed. Below are some for which the content studied at A level would be particularly relevant:

| | |
|---|---|
| Engineering Software analyst / programmer Financial analyst Meteorologist Statistician Sports scientist Teacher Forensic scientist | Actuary Accountant Stockbroker Computer game designer Architect Economist Investment banker Medical statistician |
|---|---|

You might also want to look at some interesting case studies on STEM careers at www.linoit.com. Login is *Warriner* and password is *algebra*