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# Mathematics and Further Mathematics





## Requirements

- Ideally, GCSE grade 7 or better.
- Grade 6 would be fine if you can ensure you are up to speed with algebraic manipulation and are willing to push yourself with lots of independent study.
- Further Mathematics needs an 8 or better and definitely requires a strong independent nature.
- Above all, for both Mathematics and Further Mathematics, it is essential to apply your effort early to bridge the gap between GCSE and A level Mathematics.





## Mathematics and Further Mathematics courses

- Linear assessment.
- 100% of the course is exam based.
- All exams for Mathematics and Further Mathematics will be taken at the end of the two year course.
- Statistics and Mechanics are compulsory to be studied in A level mathematics.
- There are no options available for A level Mathematics. 100% of the course is prescribed.





## Use of Technology and Calculators

- Students will be required to purchase a suitable calculator that supports the A level content.

These calculators will be available to purchase from the school shop.





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## Year 12 Mathematics

The course is split into two parts: Pure Mathematics and Applied Mathematics.

50% of the Pure Mathematics is taught in year 12 along with half of the statistics and mechanics element.

Students will be assessed throughout the year and examined internally at the end of year 12.





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## Year 13 Mathematics

The remaining 50% of the Pure Mathematics is taught in year 13 along with the rest of the statistics and mechanics content.

Students will be assessed regularly to monitor progress.

### Remember

There are no choices as to what the students can study for A level Mathematics.





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## What support can you expect?

All Mathematics and Further Mathematics classes are taught by experienced Mathematics teachers.

The Mathematics Faculty run weekly support sessions after school. These may be attended voluntarily or students may be obliged to attend.

Summer work will be set to ensure students are fully prepared and their GCSE knowledge is up to speed.

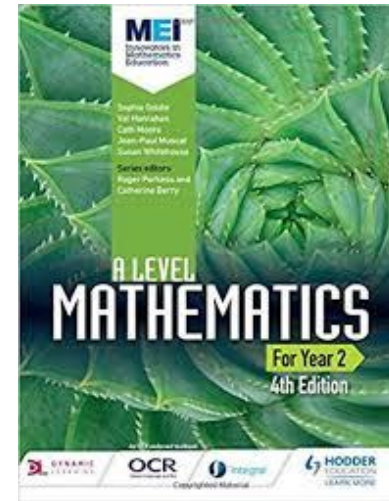
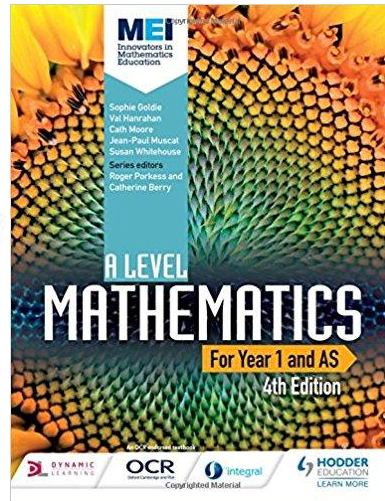




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## Year 12 and 13 Mathematics

Students will be required to buy a text book for Year 12 and a text book for Year 13.







## Why Mathematics?

because ...

- you enjoy it
- you are good at it
- it is recognised as a strong academic subject
- it supports a wide range of other subjects and professions





## Further Mathematics

- A must for the very able Mathematician.
- Especially useful for those intending to follow a Mathematics related degree course – Mathematics, Engineering, Physics and many more.

BUT...

- Be aware that some universities don't count Further Mathematics as a separate A level!





## Further Mathematics

Further Mathematics is **only 50% prescribed**.

As a consequence, the remaining 50% will provide some choice for students.

Options are available from Pure and Applied Mathematics and could be selected to support other areas of the curriculum.

This can be discussed on an individual basis but the likelihood is that students will complete a major module in Mechanics and a minor module in Statistics.

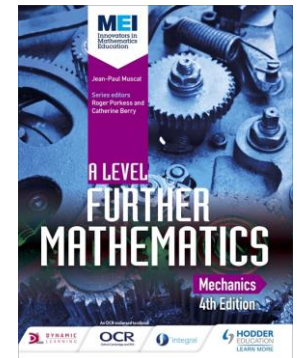
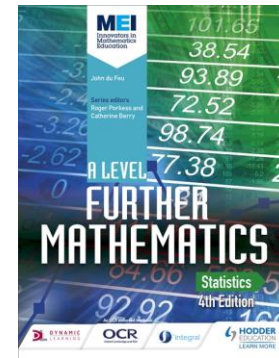
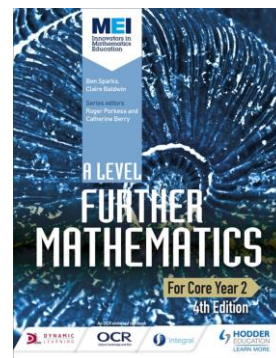
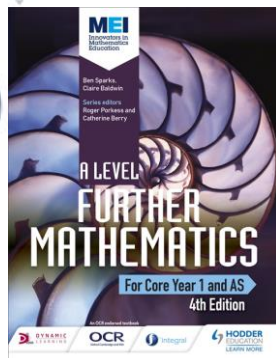




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## Further Mathematics

Students will be required to buy a number of text books to complete the two year Further Mathematics course.





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# A Plea!

Please discuss with your child's teacher about their suitability for either A level Mathematics or A level Further Mathematics.

A good GCSE grade is essential but more important is a good work ethic. A level Mathematics is a big step up from GCSE Mathematics.





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Forget the rest, try the best!

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