Further Mathematics A Level

Sixth Form Open Evening

CANNOCK CHASE HIGH SCHOOL

ACHIEVEMENT FOR ALL

Requirements

To be able to enroll onto A level Further Mathematics you need:

- Grade 7-9 GCSE Mathematics

- Followed the Higher syllabus

- Have a love for the subject (you'll have 10 hours of maths lessons!)

- Hard work ethic

Desirable

- Need it for your future career and want to continue to study Mathematics at university.

- Just enjoy doing Mathematics

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Content

Year 12	Year 13 - A Level
Further Pure Mathematics 1	Paper 1: Further Pure Mathematics 1
Decision Mathematics 1	Paper 2: Further Pure Mathematics 2
	Paper 3: Decision Maths
	Paper 4: Further Mechanics

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Important Facts

- You must do A Level Mathematics to do A Level Further Mathematics.

- Some overlap between Maths and Further Maths in some modules – doing Further Maths will benefit Mathematics.

- **NO COURSEWORK** – all exam based.

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Important Facts

- All papers allow calculator usage.
  You will need a more advanced calculator - Casio fx991-EX is the minimum requirement

- **NO COURSEWORK** – all exam based.

- A level Further Mathematics has a 50:50 between pure to applied content*.
  *applied maths will be decision and mechanics

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How are Y12 and Y13 delivered?

- All content is delivered during 5 lessons per week.

- Students will either be taught by one teacher or by two teachers on a 3:2 split.

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Assessment

- Students complete end of topic tests and complete progress check assessments 3 times a year.

- Students should expect to receive homework every week.

- Independent study is also expected and students should each have their own independent study folder which is checked regularly.
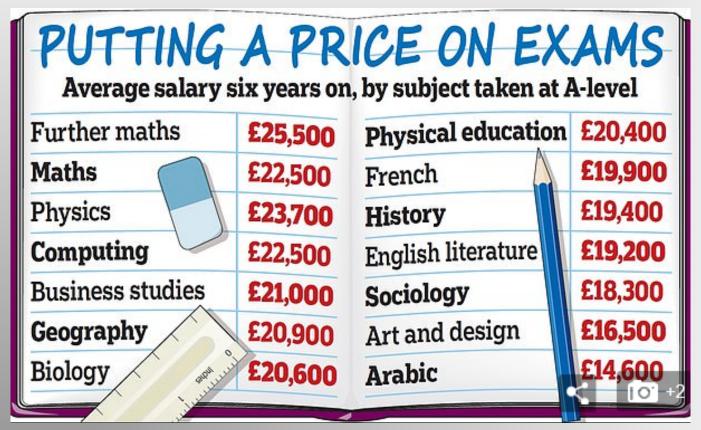
Reasons to study further mathematics

"Maths skills are in high demand – meaning that people with the right qualifications will not only be able to command a high salary, they will also have a lot of choices in the job market, meaning that they can have the ability to find a job which suits them and interests them."

"Almost 30 per cent of skill shortage vacancies in 2015 were linked to a lack of 'complex' numerical/statistical skills."

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Reasons to study further mathematics

PUTTING A PRICE ON EXAMS
Average salary six years on, by subject taken at A-level

Further maths	£25,500	Physical education	£20,400
Maths	£22,500	French	£19,900
Physics	£23,700	History	£19,400
Computing	£22,500	English literature	£19,200
Business studies	£21,000	Sociology	£18,300
Geography	£20,900	Art and design	£16,500
Biology	£20,600	Arabic	£14,600

The figures, from the Department for Education, draw on tax data to reveal what people in England who took their A-levels in 2010/11 were earning in 2016/17.

Reasons to study further mathematics

Degree subject category	% of accepted students with A levels who have studied A level Further Maths
Mathematics (G1)	65%
Physics (F3)	38%
General Engineering (H1)	28%
Mechanical Engineering (H3)	26%
Chemical, Process and Energy Engineering (H8)	17%
Computer Science (I1)	16%
Economics (L1)	11%
Chemistry (F1)	8%

My pathway into...
Particle Physics and Beyond

Jackie Bell

"If you love maths, be vocal about it and be proud. Without my maths I wouldn't have got anywhere near where I am today"

A levels:
- Maths
- Further Maths
- Music Technology

University:
- **Maths**, University of Liverpool

← Watch my video

Advanced Mathematics Support Programme®

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My pathway into...
Digital Media

Belle Cartwright

"We regularly have to carry out statistical hypothesis tests to prove whether an advert has been effective or not."

A levels:
- Maths
- Further Maths
- Chemistry
- Economics
- Art

University:
- **Psychology**, University College London

← Watch my video

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My pathway into…

Manufacturing Engineering

Ayantika Mitra

"What I'd like to see happen in my lifetime is a real change to the way that we make things, so that we can use our planet's resources more efficiently"

A levels:
- Mathematics
- Further Mathematics
- Physics
- Chemistry

University:
- **Mathematics**, UCL

← Watch my video

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Summary

- Must have at least a Grade 7 at GCSE Higher Tier – for those who are exceptionally good at Mathematics.

- Hard work and perseverance is necessary, but worth it in the end!

- Regular attendance at lessons is essential.

- A highly regarded A Level which is ideally suited to those who are thinking of studying heavy Mathematical-based subjects at university – although not an essential entry requirement.

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Questions

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