MEI Mathematics Education Innovation

OCR Oxford Cambridge and RSA

For first teaching Septem

OCR A level Further Mathematics B (MEI)

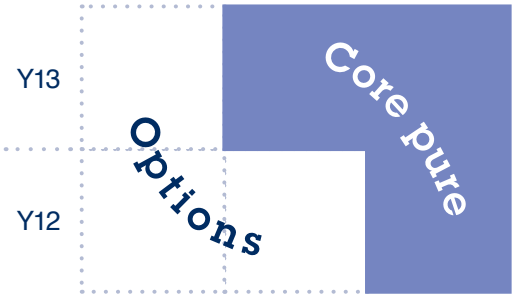
These notes and diagrams show how options can be chosen if the course is to be taught over two years, alongside AS and A level Mathematics and AS Further Mathematics.

Imagine the two year course is divided into six teaching slots, three in each year. The Core pure paper is mandatory.

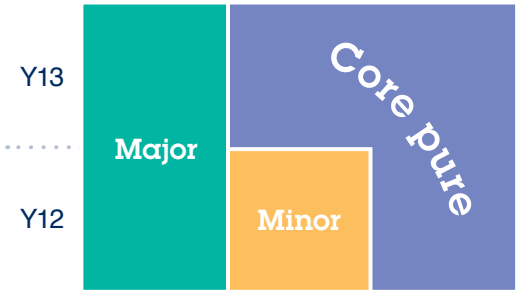
Teaching it uses three out of six slots: one in Year 12 and two in Year 13. The remaining three slots are for options.

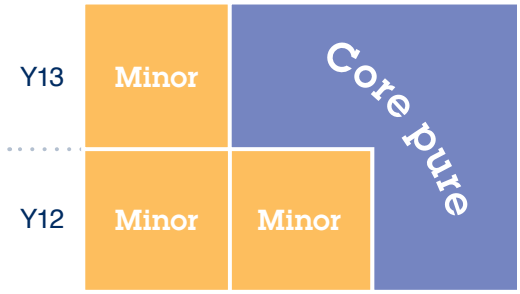
This is a linear qualification; all of the content is examined at the end of the course.

Further information is available at *mei.org.uk/2017-mei-furthermaths-spec*



One major option + one minor option OR Three minor options





Major options

Major

Mechanics major
Statistics major

The first half of each of these is the same content as a minor option and can be taught in Year 12.

You cannot choose:
Mechanics major + Mechanics minor
Statistics major + Statistics minor

Minor options

Minor

Mechanics minor
Statistics minor
Modelling with algorithms
Numerical methods

These can be taught in either Year 12 or Year 13.

Extra pure
Further pure with technology

OCR AS level Further Mathematics B (MEI)

Core pure is mandatory, choose two AS options

These AS options are available as standalone Level 3 Certificates:

AS Core pure
Statistics a
Numerical methods
Mechanics a
Modelling with algorithms

AS options

AS option

Mechanics a
Statistics a
Modelling with algorithms
Numerical methods

These are suitable for Year 12 and have the same content as the respective A level minor option.

Mechanics b
Statistics b

These are suitable for Year 13 and have the same content as the second half of the respective A level major option.

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OCR AS/A level Further Mathematics B (MEI)

These tables show all the papers in the MEI AS and A level Further Mathematics qualifications, and give the rules for choosing options.

H635 AS Further Mathematics B (MEI)

Mandatory paper	Optional options
Y410 Core pure	**Y411** Mechanics a **Y412** Statistics a **Y413** Modelling with algorithms **Y414** Numerical methods **Y415** Mechanics b **Y416** Statistics b
1 hr 15 mins **60 marks** **33⅓%** of AS level	**1 hr 15 mins** **60 marks** **33⅓%** of AS level

Take the mandatory paper *plus* two AS options.

H645 A level Further Mathematics B (MEI)

Mandatory paper	Major options	Minor options
Y420 Core pure	**Y421** Mechanics major **Y422** Statistics major	**Y431** Mechanics minor **Y432** Statistics minor **Y433** Modelling with algorithms **Y434** Numerical methods **Y435** Extra pure **Y436** Further pure with technology
2 hr 40 mins **144 marks** **50%** of A level (after scaling)	**2 hr 15 mins** **120 marks** **33⅓%** of A level (after scaling)	**1 hr 15 mins** [Y436 1hr 45mins] **60 marks** **16⅔%** of A level (after scaling)

Take the mandatory paper *plus* one major option *plus* one minor option **OR** take the mandatory paper *plus* three minor options.

These tables show how the content is linked between different papers, and so helps plan for co-teachability. Note that if content appears in an AS paper it is examined at AS standard; the same content may appear in an A level paper, but it is assessed at A level standard.

AS mandatory paper		A level mandatory paper
Y410 AS Core pure	*is one third of*	**Y420** A level Core pure

AS option		A level minor option		A level major option
Y411 Mechanics a	*is the same as*	**Y431** Mechanics minor	*is the first half of*	**Y421** Mechanics major
Y415 Mechanics b			*is the second half of*	**Y421** Mechanics major
Y412 Statistics a	*is the same as*	**Y432** Statistics minor	*is the first half of*	**Y422** Statistics major
Y416 Statistics b			*is the second half of*	**Y422** Statistics major
Y413 Modelling with algorithms	*is the same as*	**Y433** Modelling with algorithms		
Y414 Numerical methods	*is the same as*	**Y434** Numerical methods		
		Y435 Extra pure		
		Y436 Further pure with technology		