



## A level Further Mathematics: Structure/Assessment

Specification	Assessment structure	Weightings	Compulsory Pure topics	Optional components
<b>AQA</b>	3 x 2 hours 2 Compulsory Pure 1 Applied	$\frac{2}{3}$ Compulsory Pure $\frac{1}{3}$ Options	<ul style="list-style-type: none"> <li>- Proof</li> <li>- Complex numbers</li> <li>- Matrices</li> <li>- Further algebra &amp; functions</li> <li>- Further calculus</li> <li>- Further vectors</li> <li>- Polar coordinates</li> <li>- Hyperbolic functions</li> <li>- Differential equations</li> <li>- Trigonometry</li> <li>- Numerical methods</li> </ul>	1 examination, students select 2 out of 3 sections from Discrete, Mechanics and Statistics
<b>Edexcel</b>	4 x 1 hour 30 minutes 2 Compulsory Pure 2 Optional	$\frac{1}{2}$ Compulsory Pure $\frac{1}{2}$ Options	<ul style="list-style-type: none"> <li>- Proof</li> <li>- Complex numbers</li> <li>- Matrices</li> <li>- Vectors</li> <li>- Algebra</li> <li>- Series</li> <li>- Hyperbolic functions</li> <li>- Further calculus</li> <li>- Polar coordinates</li> <li>- Differential equations</li> </ul>	2 optional units, each with a separate examination, from: <ul style="list-style-type: none"> <li>- Further Pure 1</li> <li>- Further Pure 2</li> <li>- Mechanics 1</li> <li>- Mechanics 2</li> <li>- Statistics 1</li> <li>- Statistics 2</li> <li>- Decision 1</li> <li>- Decision 2</li> </ul>
<b>MEI</b>	<ul style="list-style-type: none"> <li>- 2 hour 40 minutes (Pure)</li> <li>- 2 hour 15 minutes (major)</li> <li>- 1 hour 15 minutes (minor)</li> </ul> <p style="text-align: center;"><i>or</i></p> <ul style="list-style-type: none"> <li>- 2 hour 40 minutes (Further Pure)</li> <li>- 3 x 1 hour 15 minutes (minor)</li> </ul>	$\frac{1}{2}$ Compulsory Pure $\frac{1}{2}$ Options	<ul style="list-style-type: none"> <li>- Proof</li> <li>- Complex numbers</li> <li>- Matrices</li> <li>- Vectors</li> <li>- Algebra</li> <li>- Series</li> <li>- Hyperbolic functions</li> <li>- Further calculus</li> <li>- Polar coordinates</li> <li>- Differential equations</li> </ul>	1 major and 1 minor option or 3 minor options, each with a separate examination, from: <p><i>Major options</i></p> <ul style="list-style-type: none"> <li>- Mechanics</li> <li>- Statistics</li> </ul> <p><i>Minor options</i></p> <ul style="list-style-type: none"> <li>- Mechanics</li> <li>- Statistics</li> <li>- Modelling with algorithms</li> <li>- Numerical methods</li> <li>- Extra pure</li> <li>- Further pure with technology</li> </ul>
<b>OCR A</b>	4 x 1 hour 30 minutes 2 Compulsory Pure 2 Optional	$\frac{1}{2}$ Compulsory Pure $\frac{1}{2}$ Options	<ul style="list-style-type: none"> <li>- Proof</li> <li>- Complex numbers</li> <li>- Matrices</li> <li>- Vectors</li> <li>- Algebra</li> <li>- Series</li> <li>- Hyperbolic functions</li> <li>- Further calculus</li> <li>- Polar coordinates</li> <li>- Differential equations</li> </ul>	2 optional units, each with a separate examination, from: <ul style="list-style-type: none"> <li>- Statistics</li> <li>- Mechanics</li> <li>- Discrete Mathematics</li> <li>- Additional Pure Mathematics</li> </ul>

## AS level Further Mathematics: Structure/Assessment

Specification	Assessment structure	Weightings	Compulsory Pure topics	Optional components
<b>AQA</b>	2 × 1 hour 30 minutes 1 Pure, 1 Applied	½ Compulsory Pure ½ Options	<ul style="list-style-type: none"> <li>- Proof</li> <li>- Complex numbers</li> <li>- Matrices</li> <li>- Further algebra and functions</li> <li>- Further calculus</li> <li>- Further vectors</li> <li>- Polar coordinates</li> <li>- Hyperbolic functions</li> </ul>	1 examination, students select 2 out of 3 sections from Discrete, Mechanics and Statistics
<b>Edexcel</b>	2 × 1 hour 40 minutes 1 Compulsory Pure 1 Paper covering 2 options	½ Compulsory Pure ½ Options	<ul style="list-style-type: none"> <li>- Proof</li> <li>- Complex numbers</li> <li>- Matrices</li> <li>- Further algebra and functions</li> <li>- Further calculus</li> <li>- Further vectors</li> </ul>	1 Paper covering 2 options from: <ul style="list-style-type: none"> <li>- Further Pure 1 and Further Pure 2</li> <li>- Further Pure 1 and Statistics 1</li> <li>- Further Pure 1 and Mechanics 1</li> <li>- Further Pure 1 and Decision 1</li> <li>- Statistics 1 and Mechanics 1</li> <li>- Statistics 1 and Decision 1</li> <li>- Statistics 1 and Statistics 2</li> <li>- Mechanics 1 and Decision 1</li> <li>- Mechanics 1 and Mechanics 2</li> <li>- Decision 1 and Decision 2</li> </ul>
<b>MEI</b>	3 × 1 hour 15 minutes 1 Pure 2 options	⅓ Compulsory Pure ⅔ Options	<ul style="list-style-type: none"> <li>- Complex numbers</li> <li>- Matrices</li> <li>- Proof by induction</li> <li>- Sums of standard series</li> <li>- Vectors</li> </ul>	2 options, each with a separate examination, from: <ul style="list-style-type: none"> <li>- Mechanics a</li> <li>- Statistics a</li> <li>- Modelling with algorithms</li> <li>- Numerical methods</li> <li>- Mechanics b</li> <li>- Statistics b</li> </ul>
<b>OCR A</b>	3 × 1 hour 15 minutes 1 Pure 2 options	⅓ Compulsory Pure ⅔ Options	<ul style="list-style-type: none"> <li>- Proof</li> <li>- Complex numbers</li> <li>- Matrices</li> <li>- Vectors</li> <li>- Algebra</li> </ul>	2 optional units, each with a separate examination, from: <ul style="list-style-type: none"> <li>- Statistics</li> <li>- Mechanics</li> <li>- Discrete Mathematics</li> <li>- Additional Pure Mathematics</li> </ul>

These tables are provided for guidance only. For further details please see the full specifications and sample assessment materials:

AQA: [aqa.org.uk/subjects/mathematics/as-and-a-level/](http://aqa.org.uk/subjects/mathematics/as-and-a-level/)

Edexcel: [qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html](http://qualifications.pearson.com/en/qualifications/edexcel-a-levels/mathematics-2017.html)

MEI: [ocr.org.uk/qualifications/as-a-level-gce-further-mathematics-b-mei-h635-h645-from-2017/](http://ocr.org.uk/qualifications/as-a-level-gce-further-mathematics-b-mei-h635-h645-from-2017/)

OCR 'A': [ocr.org.uk/qualifications/as-a-level-gce-further-mathematics-a-h235-h245-from-2017/](http://ocr.org.uk/qualifications/as-a-level-gce-further-mathematics-a-h235-h245-from-2017/)