

GCSE FURTHER MATHEMATICS SNAPSHOT

OVERVIEW

Whether you already teach our existing GCSE Further Mathematics specification or you are considering offering the course for the first time, we aim to give teachers and students the resources they need to achieve excellence in the study of Further Mathematics.

Our revised specification has four externally assessed units. It gives students who are more capable the opportunity to extend their knowledge beyond GCSE Higher Tier Mathematics. It also offers students the mathematical skills, knowledge and understanding to help them progress to further academic and vocational study and to employment.

SPECIFICATION SUMMARY

The GCSE Further Mathematics specification has four units:

Unit 1: Pure Mathematics

Unit 2: Mechanics

Unit 3: Statistics

Unit 4: Discrete and Decision Mathematics

Each unit is assessed by an external written examination.

BENEFITS TO STUDENTS

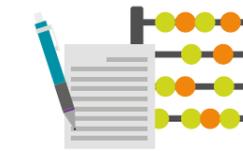
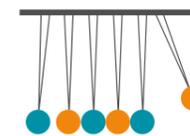
A GCSE in Further Mathematics helps students to:

- use and apply standard techniques;
- reason, interpret and communicate mathematically; and
- solve problems within mathematics and other contexts.

CROSS-CURRICULAR SKILLS, THINKING SKILLS AND PERSONAL CAPABILITIES THAT WILL BE DEVELOPED

This course enables students to:

- participate in discussions, debates and interviews by sharing ideas and communicating meaning, feelings and viewpoints in a logical and coherent manner;
- use mathematical language and notation with confidence, make predictions and select and apply mathematical concepts;
- interpret and analyse a wide range of mathematical data and present it in a variety of formats; and
- make effective use of information and communications technology in a wide range of contexts to access, manage, select and present information, including mathematical information.



UNIQUE FEATURES OF THIS SPECIFICATION/ IMPROVEMENTS MADE

The GCSE Further Mathematics specification goes beyond the level of challenge posed by the GCSE Mathematics qualifications in England and the CCEA revised GCSE Mathematics (Higher Tier).

There are no revised UK GCSE specifications comparable to this one. Independent academic research found this specification to be the most challenging qualification aimed at this age group worldwide.

CONTENT AND ASSESSMENT

CONTENT	CONTENT SUMMARY	ASSESSMENT	WEIGHTING
Unit 1	Pure Mathematics (Mandatory)	External written examination 2 hours Students respond to questions in a question-and-answer booklet that includes a formula sheet	50%
Unit 2	Mechanics (Optional)	External written examination 1 hour Students respond to questions in a question-and-answer booklet that includes a formula sheet	25%
Unit 3	Statistics (Optional)	External written examination 1 hour Students respond to questions in a question-and-answer booklet that includes a formula sheet	25%
Unit 4	Discrete and Decision Mathematics (Optional)	External written examination 1 hour Students respond to questions in a question-and-answer booklet	25%

SUPPORTING YOU

In person

As your local awarding body, we can provide personalised support and, if appropriate, visits to you and your centre. If you would like to arrange for us to visit you and your department, please contact the Specification Support Officer.

At teacher-focused events

We provide a comprehensive programme of events to support the specification, including:

- free launch events to introduce you to the revised specification; and
- free seminars to support teaching and assessment and to help you with subject-specific issues.

We will issue invitations to heads of departments at least three weeks before each event. Check our full list of support events online at www.ccea.org.uk

Online

Most of the support we provide will be available on your subject microsite. The site will contain:

- the latest version of the GCSE Further Mathematics specification;
- planning frameworks;
- Chief Examiner's reports with information on improving examination performance;
- exemplar papers and mark schemes; and
- exemplification of standards (available after the first examination series).

CONTACT US

If you have a query or require advice or guidance, please contact:

Education Manager with overall responsibility:

Eleanore Thomas
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Specification Support Officer:

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SPECIFICATION SNAPSHOT

For first teaching from September 2017

For first assessment in Summer 2018

For first award in Summer 2019



GCSE Further Mathematics