

Teach **Level 2** **Further Mathematics** with us

A challenging qualification to
stretch high achievers



About Level 2 Further Mathematics

Our Level 2 Further Mathematics qualification assesses mathematical skills in greater depth, particularly in algebraic manipulation and reasoning.

High-achieving learners go further with topics that will help them develop skills in algebra, geometry, calculus, matrices, trigonometry, functions and graphs.

By using the Level 2 Further Maths qualification, you can prepare learners for the step up to further studies at Level 3 and help them to maximise their potential.

Complementing GCSE Maths by encouraging learners' higher order mathematical skills, it builds on the Key Stage 4 curriculum and is intended as an additional qualification to GCSE Mathematics, rather than as a replacement. It doesn't infringe upon AS level Maths but does help learners prepare for the extra rigour required in further studies at Level 3.

Qualification aims

We designed the Level 2 Further Maths qualification to:

- fill the gap for high-achieving learners who need further stretch and challenge beyond that of GCSE Maths
- focus on higher order technical proficiency, rigorous argument and problem-solving skills to help best prepare learners for further study
- expose learners to a wider range of maths problems.





"Our students have been highly engaged and intrigued about learning new content, this has cemented their desire to study maths at A-level. We find the AQA further maths worksheets and past papers prepare our students very well for the demands of the exam."

Alex Lacey
Teacher of Maths at St. Bede's School, Redhill

How did we develop the qualification?

To create our Level 2 Further Maths qualification, we:

- liaised with teachers at more than 50 schools and colleges
- sought opinions from the Russell Group and other Universities
- spoke with subject associations including the MA, NCETM and ACME
- consulted and received accreditation from Ofqual.

Following the GCSE reform, we re-developed our qualification to ensure that it still meets the needs of our learners and teachers. We:

- consulted with teachers at over 100 schools teaching the specification
- added some content from the new GCSE
- aligned the formulae requirements with the new GCSE
- made some small additions to the content to allow for more coherence and completeness to the work tested.

“Further Maths pupils seem more confident with the GCSE Maths content and it is supporting those pupils to reach their full potential at GCSE. It is worth every single minute for every pupil that takes it”

Peter Mattock
Assistant Principal, Brockington College

How is the assessment structured?

Paper 1

Non-calculator

Paper 2

Calculator

For both papers

1 hour 45 minutes – 80 marks

Content from any part of the specification can be assessed.

A mix of question styles, from short, single-mark questions to multistep problems. The mathematical demand increases as a learner progresses through the paper.

Co-teachability with other maths qualifications

This qualification is intended to be taught alongside or after GCSE Maths to prepare learners for further studies at Level 3.

Free resources

You can download sample papers and mark schemes from:

[aqa.org.uk/subjects/mathematics/aqa-certificate/furthermathematics-8365/assessment-resources](https://www.aqa.org.uk/subjects/mathematics/aqa-certificate/furthermathematics-8365/assessment-resources)

All About Maths:

You'll have access to the best free resources on All About Maths, our online resource site for maths teachers where you can access:

- past papers
- practice papers
- mock exam analysers
- editable route maps (scheme of work) with links to free web resources for each topic
- worksheets
- topic tests
- teaching guidance.

Exampro Level 2 Further Mathematics question bank

Create bespoke assessments for your Level 2 Further Mathematics learners with our question bank from Exampro. Easily search, collate and share an assessment paper designed to fit the needs of your class.

Use these questions to help:

- stretch your most capable learners
- bridge the gap between GCSE and A-level
- design exam-style papers
- search by topic or question-type to take a deeper dive into areas you know your learners need extra help on.

Why choose AQA?

Want to give your mathematicians the edge at A-level? More people than ever before entered with us for Level 2 Further Maths, with over 1,800 schools teaching our tried and tested qualification, so why not join them?

We're also here to support you, every step of the way. Like you, our priority is the learners in your care. We want to help you to ensure they are confident, and well-prepared mathematicians through our assessments and we've got a great bank of resources to help you teach – including our popular Exampro question bank.

Level 2 Further Maths moves beyond the GCSE Curriculum and is a challenging qualification to stretch high achievers and, with entries now over 30,000, we're helping more learners to stretch their maths skills and flourish.

“I love the way that AQA’s Level 2 Certificate in Further Maths goes beyond the GCSE curriculum to challenge and engage the highest attaining students. It prepares them for A-level, and gives them the opportunity to reach their full potential. I hugely recommend this excellent course.”

Jo Morgan
Director of Mathematics, Harris Academy Sutton

A look at some example questions

$$6 \quad \mathbf{A} = \begin{pmatrix} 4 & -1 \\ -7 & 2 \end{pmatrix} \quad \mathbf{B} = \begin{pmatrix} s \\ -5 \end{pmatrix} \quad \mathbf{C} = \begin{pmatrix} -1 \\ t \end{pmatrix} \quad \mathbf{D} = \begin{pmatrix} 2 & 1 \\ 7 & u \end{pmatrix}$$

s , t and u are constants.

$$6 \text{ (a)} \quad \mathbf{AB} = \mathbf{C}$$

Work out the values of s and t .

[3 marks]

5

$$y = 2x^{10} - \frac{3}{x^2}$$

Work out $\frac{dy}{dx}$

[3 marks]

17

Solve the simultaneous equations

$$2a + b - c = 8$$

$$4a - 3b - 2c = -9$$

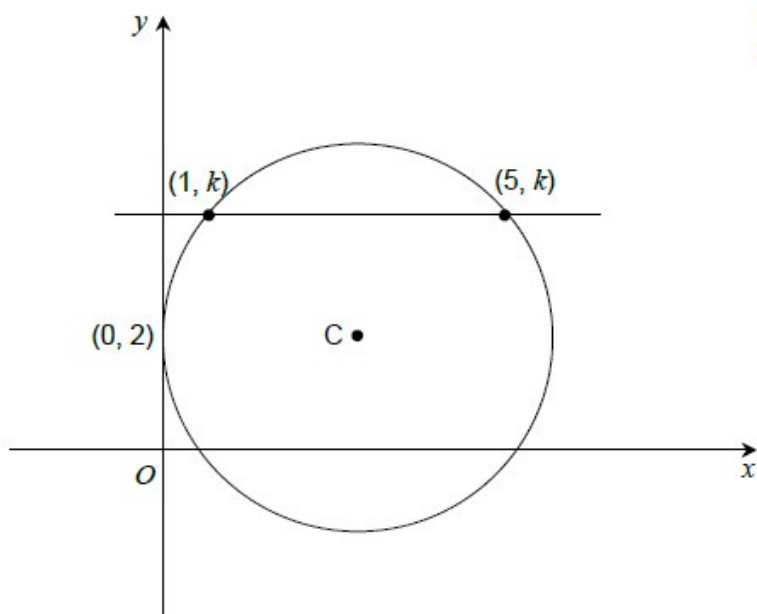
$$6a + 3b + c = 0$$

[5 marks]

11

A circle, centre C , touches the y -axis at the point $(0, 2)$

The line $y = k$ intersects the circle at the points $(1, k)$ and $(5, k)$



Not drawn
accurately

Work out the equation of the circle.

[3 marks]

11 For sequence A, n th term = $\frac{n}{14n + 30}$

For sequence B, n th term = $\frac{2}{n}$

The k th term of sequence A equals the k th term of sequence B.

Work out the value of k .

You **must** show your working.

[4 marks]

Get in touch

Our teams are experts in assessment. We're also experts at giving you the support you need, when you need it.

Contact the team on: **0161 957 3852**

or email: **maths@aqa.org.uk**

Follow us on X/Twitter: **[@AQAMaths](https://twitter.com/AQAMaths)**

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