

Advanced Mathematics Support Programme

Teaching Further Mathematics 2 (TFM2)

TFM is a sustained professional development course offered by the Advanced Mathematics Support Programme (AMSP) and certificated by Mathematics in Education and Industry (MEI). TFM consists of two units, TFM1 and TFM2. **This document provides information about the second unit, TFM2.**

TFM2 is a 6 month unit that is currently offered from February – July each year. TFM1 is a prerequisite for TFM2.

The TFM2 unit follows on from the TFM1 unit. Together the units cover the Further Pure mathematics content in A level Further Mathematics that is common to all four specifications for first teaching from September 2017. The first unit, TFM1 covers at least the Further Pure content for AS Further Mathematics that is common to all four specifications. The TFM1 and TFM2 units enable teachers to teach topics on A level Further Mathematics exam specifications (England). The topics for TFM2 include:

- Polar coordinates
- Differential equations
- Further calculus
- Further matrices
- Further vector geometry
- Number theory
- Group theory

The course fee for TFM2 is £300[§]

[§]Teachers working in state-funded schools or colleges in England are eligible for a subsidy which covers the cost of the full course unit fee (£300). The AMSP is supported by the Department for Education and teachers working in state-funded schools or colleges in England are eligible to receive a subsidy to cover the cost of the course. At the start of the course a fee of £300 is payable which is then reimbursed in full at the end of the course if there is evidence that the course delegate has engaged with the course content and has not withdrawn before the end date of the course unit. Evidence of engagement includes attendance of at face-to-face study days, participation in online tutorials and forum discussions and submission of the unit assignment issued at the end of the course.

Delegates enrolled on the TFM2 unit can expect:

- access to ten live online tutorials;
- to attend two study days, both held on Saturdays;
- textbooks to support their studies (issued when enrolled on TFM1)
- access to online teaching and learning resources (integralmaths.org)
- email support from the unit tutor and access to an online group forum;
- a course certificate issued on successful completion of both the TFM1 and TFM2 unit assignments.

Online tutorials

TFM2 tutorials are scheduled every two or three weeks on Tuesday evenings at 7.30pm and last for about 60-90 minutes per session. Dates and times for online sessions will be available at the start of the course and published in the TFM2 unit handbook. All live sessions are recorded providing an opportunity for delegates to revisit the content of the tutorials as many times as they wish.

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Face to face study days

There are two study days for TFM2. These will take place on Saturdays in March and July. Venues are likely to be the University of Warwick, NCVO London and / or the University of Cambridge.

TFM2 unit assignment

To qualify for a end of course certificate, a delegate will need to submit an assignment at the end of the TFM1 unit and the TFM2 unit. The TFM2 unit assignment, like TFM1, will be to submit handwritten solutions for an exam-style paper; producing a list of common student errors and misconceptions relating to each question on the paper. In addition, delegates will be required to give a brief outline of a teaching idea or resource for each question that could be used to address one or more of the errors and misconceptions listed.

Further information

The Advanced Mathematics Support Programme is a government-funded initiative, supported by the Department for Education and is managed by MEI working in partnership with Tribal Education.

The AMSP's aims are to

- increase participation in AS/A level Further Mathematics and AS/A level Mathematics
- increase participation in Core Maths
- improve the quality of teaching
- increase the number of students studying STEM degrees

Find out more about the Advanced Mathematics Support Programme:

furthermaths.org.uk/amsp

Mathematics in Education and Industry (MEI) is a membership organisation and a charity which since the 1960s has worked to support mathematics teaching and learning. Any income generated is used to support mathematics education. MEI pioneers the development of innovative mathematics qualifications and teaching and learning resources. MEI offer teachers of all GCSE, Core Maths and A level specifications a range of professional development courses.

Find out more about Mathematics in Education and Industry (MEI):

www.mei.org.uk

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