

Advanced Mathematics Support Programme

Teaching Further Mathematics 1 (TFM1)

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 first unit, TFM1.**

TFM1 is a 7 month unit that is currently offered from July – January and also from January - July and each year. TFM1 is a prerequisite for TFM2.

The TFM1 unit covers the following pure mathematics topics:

- Matrices
- Complex Numbers
- Roots of polynomial equations
- Summations and series
- Proof by induction
- Vector Geometry
- Maclaurin series
- Calculus
- Hyperbolic functions

These topics feature in the further pure content of the reformed AS levels in further mathematics and in some A level further mathematics specifications for first teaching from September 2017.

The course fee for TFM1 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 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at the end of the course if there is evidence that the course delegate has engaged with the course content and has not withdrawn before the end date of the course unit.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 TFM1 unit can expect:

- access to ten live online tutorials;
- to attend two study days;
- to receive textbooks to support their studies;
- access to online teaching and learning resources (integralmaths.org);
- email support from the unit tutor and access to an online group forum;
- a certificate issued on successful completion of the TFM1 unit assignment.

Online tutorials

TFM1 tutorials are scheduled approximately once every two to three weeks on Thursday evenings at 7.30pm-8.30pm. Tutorials are conducted using an online real-time web-conferencing platform. Dates and times for online sessions will be confirmed at the start of the course and published in the TFM1 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 TFM1. For delegates joining TFM1 in July, the study days are scheduled in September and January. For delegates joining TFM1 in January 2018, their study days are in March and July. There is a choice of two dates/venues for each study day. Study days are offered on a week day or a Saturday in London and are offered on a Saturday in Coventry. Dates and venues for study days will be confirmed at the start of the course and published in the TFM1 unit handbook.

TFM1 unit assignment

To qualify for a certificate, a delegate will need to submit and pass an assignment at the end of the unit. The assignment 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. We strongly encourage delegates to submit an assignment to help them consolidate what they have learnt. In particular, a good grasp of TFM1 is required before progression on to TFM2. *A place on TFM2, subject to availability, is not automatically guaranteed on completion of TFM1.*

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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