



Advanced Mathematics  
Support Programme®

Continuing Professional  
Development  
Standard

National Centre  
for Excellence in the  
Teaching of Mathematics



## Teaching Further Mathematics 1 (TFM1)

13th January 2022

### Overview

Teaching Further Mathematics 1 (TFM1) is a [sustained professional development course](#) for teachers wishing to develop their own subject knowledge and classroom practice in teaching A level Further Mathematics. It covers at least the pure material common to all AS level Further Mathematics specifications.

TFM1 consists of:

- 10 live online tutorials
- Two compulsory study days
- Textbooks to support your studies
- Access to our online Integral platform, including course-specific teaching and learning resources
- Email support from a tutor and access to an online group forum

Participants will have the option to certificate by submitting an assignment at the end of the course.

Following completion of this course, participants will be eligible to study [TFM2](#), which includes the remaining pure content common to all A level Further Mathematics specifications.

### Aims

- Gain a deep understanding of A level Further Mathematics.
- Develop confidence and skills to teach A level Further Mathematics, focusing on subject knowledge and effective pedagogy.
- Provide opportunities for mathematical thinking, explore connections, and identify misunderstandings.

### Who will benefit from attending?

TFM1 is designed for teachers who are currently teaching AS or A level Further Mathematics or who wish to teach it at some point in the near future.

Our sustained courses enable teachers to broaden and deepen their subject, pedagogical and pedagogical content knowledge. Teachers, with enhanced subject knowledge, are therefore better equipped to make links between topics, address students' misconceptions and confidently challenge learners at all attainment levels. Our course aims and intended outcomes are consistent with the principles set out in the Education Inspection Framework.

### Content

TFM1 covers the content across all AS level Further Mathematics specifications. This means there will be coverage of AS level topics and, depending on your awarding body, some coverage of A level topics. For a list of topics please refer to the online session schedule below.

## Materials and Equipment

A computer with a reliable internet connection will be required to attend the online tutorials. In addition, a headset with a microphone is suggested to get the best experience of the online tutorials.

## Frequently Asked Questions

### **Do I need to have taught A level Mathematics before doing the TFM1 course?**

There is no requirement that applicants have taught A level Mathematics before enrolling on TFM1 however, much of the pure content of A level Mathematics is assumed knowledge. The Teaching A Level Mathematics (TAM) course is highly recommended for teachers looking for support with teaching A level Mathematics.

### **How much time will I need to devote to studying?**

It is difficult to be specific as this will depend on previous experience. In the past, delegates have reported spending between 1 and 4 hours studying each week. Ideally, delegates should aim to study regularly for a few hours each week however, in reality many working teachers have weeks when this is difficult and they use out-of-term time to catch up.

It is not our usual policy to allow teachers to enrol on more than one sustained course (TAM, PALM, TFM, TM, TS, TD) at the same time. Please contact us at [cpd@mei.org.uk](mailto:cpd@mei.org.uk) before making multiple course applications.

### **Do I have to hand in any work during the course?**

The TFM1 assignment is the only work that delegates hand in. To receive a certificate at the end of your TFM1 course you will need to submit and pass the TFM1 assignment. Certification is optional but we strongly encourage you to submit an assignment anyway to help you consolidate what you have learnt. In the past most teachers have chosen to submit an assignment.

### **Where do study days take place?**

We vary face-to-face study day locations. Recently study day locations have included London, Coventry, Manchester or Leeds.

## Cost

This course is free of charge to teachers working in state-funded schools and colleges in England. For others the course fee is £300.

Schools and colleges located within [Priority Areas](#) are eligible to receive a subsidy of £250 per study day.

# Study Schedule

## Study days

Study days are face-to-face events, with lunch and refreshments provided. Attendance at both days is expected.

Please note that although it is our intention to run these study days face-to-face, all events are subject to government restrictions and may be moved online if required. We therefore advise against making non-cancellable travel arrangements.

### Study day 1:

#### Central London

Friday 25 March 2022

or

#### Central London

Saturday 26 March 2022

### Study day 2:

#### Central London

Friday 8 July 2022

or

#### Central London

Saturday 9 July 2022

## Online sessions

Online sessions are conducted live and recordings are available for playback.

Evening online tutorials (19:30-20:45)	Study content
Thursday 13 January 2022	Introduction
Thursday 27 January 2022	Matrices 1
Thursday 10 February 2022	Complex numbers 1
Thursday 3 March 2022	Roots of polynomials
Thursday 17 March 2022	Series and induction
Thursday 7 April 2022	Vectors
Thursday 5 May 2022	Matrices 2
Thursday 19 May 2022	Maclaurin series
Thursday 9 June 2022	Complex numbers 2
Thursday 23 June 2022	Further calculus
Thursday 14 July 2022	Hyperbolic functions

## Assignment:

Following the online sessions you will work towards completing an assignment. The deadline for this assignment is 31 August 2022.

## Key Facts

<b>Event ref:</b>	#9082
<b>Audience:</b>	Teachers
<b>Curriculum focus:</b>	A level Further Mathematics
<b>Mathematical focus:</b>	Pure, Problem solving, Use of technology
<b>Event format:</b>	Sustained Professional Development
<b>Event length:</b>	6 months
<b>Study days:</b>	2
<b>Online sessions:</b>	10
<b>Region:</b>	National
<b>Venue:</b>	Online classroom and study days in London
<b>Next session:</b>	Thu 27th Jan 2022
<b>Fee:</b>	Free for state-funded schools; £300 otherwise
<b>Priority Area subsidy:</b>	2 x £250

## Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/9082>