



Advanced Mathematics  
Support Programme®

Continuing Professional  
Development  
Standard

National Centre  
for Excellence in the  
Teaching of Mathematics



## Teaching Further Mathematics 1 (TFM1) Online and Coventry, London or Manchester

4th July 2019

### Overview

FOR THE NEWEST VERSION OF THIS COURSE PLEASE GO TO: <https://amsp.org.uk/events/details/7424>

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 features:

- 10 live online tutorials
- two study days
- textbooks to support your studies
- access to online 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 pure material common to all AS level Further Mathematics specifications and more:

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

## 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.

### **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.

Teachers working at state-funded schools or colleges need to demonstrate that they have engaged with the course unit to trigger a course fee subsidy at the end of the course. If you have missed either study day you may be required to submit the TFM1 assignment in order to qualify for the course fee reimbursement whether or not you wish to certify.

### **When do the TFM1 course fees have to be paid?**

An invoice for course unit fees is issued after enrolment at the start of the course unit. Invoices are issued no later than one month after a delegate has started their course.

### **How does the subsidy for teachers working in state-funded schools or colleges work?**

The AMSP is supported by the Department for Education and therefore only course fees for teachers working in state-funded schools and colleges in England are eligible for a subsidy. If the course fee is paid by the applicant's school or college then the same school or college will receive the subsidy when the course is completed by the applicant.

### **Can I pay my own course fee?**

Yes, you may choose to pay your own course fee. Applicants who are teachers working in state-funded schools and colleges in England are eligible to receive a reimbursement of the course fee where they have paid the course fee directly. It is a requirement that the applicant submits an email address that has been issued by the state-funded school or college where they are employed and that the applicants email address is substantiated.

### **What happens if I can't attend one or more of the study days?**

Teachers on the course enjoy the study days and appreciate the chance to meet up with other teachers on the course. Study day materials are shared with all course delegates afterwards. If you are a teacher working at a state-funded school or college then to be eligible for a course subsidy you will need to demonstrate that you have engaged with the course, which includes the expectation that you will attend the face-to-face study days.

If you are unable to attend a study day and this is due to unforeseen or special circumstances then the course fee reimbursement may still be granted at the discretion of the course leader. You may be required to submit the TFM1 assignment as additional evidence of engagement with the course. If you pass the end of unit assignment, you will still be eligible for a TFM1 course certificate.

## Cost

The course fee for TFM1 is £300.

If you are working in a state-funded school or college, participation in this course attracts a reimbursement of course fees, subject to engagement and completion of the course.

Schools and colleges located within [Priority Areas](#) are eligible to receive a further subsidy of £500 to support staff cover and travel costs.

## Study Schedule

### Study days

#### Study day 1:

#### Coventry (Full)

Saturday 21 September 2019

or

#### London (Full)

Wednesday 25 September 2019

or

#### Manchester

Thursday 26 September 2019

#### Study day 2:

#### Coventry (Full)

Saturday 11 January 2020

or

#### London (Full)

Tuesday 14 January 2020

or

#### Manchester

Thursday 16 January 2020

#### Venue details:

Venue	Address
Coventry	Centre for Teacher Education, Westwood Lecture Theatre, Kirby Corner Road, Westwood Campus, University of Warwick, Coventry, CV4 8EE
London	NCVO, Society Building, 8 All Saints Street, London, N1 9RL
Manchester	Manchester Meeting Place, University of Manchester, Sackville Street Campus, Manchester, M1 3AL

### Online sessions:

Online sessions are conducted live and recordings are available for playback

Evening online tutorials (19:30-20:30)	Study content
Thursday 4 July 2019	Course introduction
Thursday 18 July 2019	Matrices 1
Thursday 8 August 2019	Complex numbers 1
Thursday 22 August 2019	Roots of polynomials
Thursday 12 September 2019	Series of induction

Evening online tutorials (19:30-20:30)	Study content
Thursday 3 October 2019	Vectors
Thursday 17 October 2019	Matrices 2
Thursday 31 October 2019	Maclaurin series
Thursday 21 November 2019	Complex numbers 2
Thursday 5 December 2019	Further calculus
Thursday 23 January 2019	Hyperbolic functions

### Assignment:

During January and February you will work toward completing an assignment. The deadline for this assignment is 28 February 2020.

Unit certification: 30 April 2020 (or before)

### Participant feedback

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*Thanks for a great course, I have learnt a lot and am looking forward to trying some of the ideas out this year.*

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*Genuinely been so impressed with TFM1&2 and have loved taking part. My teaching is heaps better for it.*

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*Actually made me think about how to deliver a subject rather than just teach from the book.*

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*The course was fantastic and I have used so many of the resources.*

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*...it was nice to spend a day on maths with like-minded people.*

### Key Facts

<b>Event ref:</b>	#5952
<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 with study days in Coventry, London or Manchester
<b>Start date:</b>	Thu 4th Jul 2019
<b>Fee:</b>	£300
<b>State-sector subsidy:</b>	£300
<b>Priority Area subsidy:</b>	£800

### Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/5952>