



Advanced Mathematics  
Support Programme®

Continuing Professional  
Development  
Standard

National Centre  
for Excellence in the  
Teaching of Mathematics



# AS and A level Further Maths: compulsory Pure top-ups

## Online

Self-paced study

### Overview

This is a group of On Demand Professional Development (ODPD) pods designed to support teachers who will be offering the AS or full A level in Further Mathematics.

The course comprises a network of 'pods', designed to complement our Live Online Professional Development (LOPD) course [AS Further Maths: Pure common topics](#), enabling teachers to access professional development covering all of the compulsory content for their awarding organisation's specification.

In each pod, teachers will see short videos guiding them through the ideas of the topic along with practice materials, triggers for reflection and suggestions for further study. Teachers will be encouraged to interact and collaborate with others studying the same material via the online forums. An expert tutor will be monitoring the forums and will respond to queries.

The course offers total flexibility regarding when teachers can access the materials, day or night, over a period of up to one year. Teachers will be able to track their progress within the course and to see when they have completed a section or a pod.

### Aims

- To introduce teachers to a range of techniques which will enable them to work more confidently with topics in the compulsory content section of AS or A level Further Maths.
- To provide opportunities to reflect on subject content, resources and teaching ideas and to discuss these with other teachers via the course forums.

### Who will benefit from attending?

All teachers involved in the delivery of the compulsory elements of A level Further Mathematics.

## Content

Access is available based on the specification you are offering. This table shows which topics are relevant to which specification.

Topic/Specification	AQA	AS AQA	A level Edexcel	AS Edexcel	A level OCR	AS OCR
<b>Maclaurin series Coming soon!</b>	?	?	?	?	?	?
<b>Calculus Coming soon!</b>	?	?	?	?	?	?
<b>Polar coordinates</b>	?	?	?	?	?	?
<b>Hyperbolic functions Coming soon!</b>	?	?	?	?	?	?
<b>Further complex numbers</b>	?	?	?	?	?	?
<b>First and second order differential equations Now available!</b>	?	?	?	?	?	?
<b>Volumes of revolution</b>	?	?	?	?	?	?
<b>Inverse of a 3x3 matrix</b>	?	?	?	?	?	?
<b>The vector product</b>	?	?	?	?	?	?
<b>Algebra and graphs 1 Coming soon!</b>	?	?	?	?	?	?
<b>Algebra and graphs 2 Coming soon!</b>	?	?	?	?	?	?
<b>Further calculus Coming soon!</b>	?	?	?	?	?	?
<b>Further matrices Coming soon!</b>	?	?	?	?	?	?
<b>Numerical methods Coming soon!</b>	?	?	?	?	?	?

\*Timings are approximate and suggest the required time for a topic to be counted on a certificate of participation. Further resources are linked from each section and so participants may, if they wish, spend more time than this in consolidating and reflecting on the content. You do not need to complete all sections to request a certificate.

## Materials and Equipment

Internet connection with capability to watch video. You may find access to graphing software such as GeoGebra or Desmos is also useful.

## Other Information

On application, you will be asked to select which qualification and specification you wish to top-up. For full coverage of the compulsory content for your choice of qualification and specification, **you will need to apply for the relevant LOPD course as well**. If you prefer, you can apply for ODPD top-ups alone, however these are not designed to give comprehensive cover of content.

Please note that LOPD courses are not always open for applications but you can [register your interest](#) if a course is not currently available.

## Eligibility

Due to the way we are funded, ODPD is only available to teachers in state-funded schools and colleges in England.

## Cost

ODPD is free of charge for qualifying teachers.

## Key Facts

<b>Event ref:</b>	#6455
<b>Audience:</b>	Teachers
<b>Curriculum focus:</b>	A level Further Mathematics
<b>Mathematical focus:</b>	Pure
<b>Event format:</b>	On Demand Professional Development
<b>Region:</b>	National
<b>Date:</b>	Self-paced study
<b>Fee:</b>	Free

## Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/6455>