



Advanced Mathematics
Support Programme®

Continuing Professional
Development
Standard

National Centre
for Excellence in the
Teaching of Mathematics



Imperial mA*ths project teacher support

Online

Self-paced study

Overview

This is an On Demand Professional Development course designed to prepare teachers to help their high-attaining students achieve an A* in A level Mathematics. The course is designed to complement Imperial College's *mA*ths* programme, developed in partnership with MEI, which gives A level Mathematics students access to tailored online support alongside face-to-face masterclasses and study days. You can find out more about the programme [via Imperial's website](#).

In partnership with Imperial College London

The logo for Imperial College London, featuring the text "Imperial College London" in white on a dark blue background.

In each unit of this online course, teachers will see pages titled:

- Spotlight on...
- Differentiation
- A challenging task
- Unpicking a question (from Imperial's accompanying student online course).

Each page includes a short video and some prompts for reflection. Participating teachers are required to interact and collaborate with each other and the course tutors via the online forums.

The course offers total flexibility: 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 see when they have completed a section, a pod or the full course. The course is being made freely available for state-funded schools and colleges through the AMSP.

Both the student and teacher courses focus mainly on AS Mathematics. Imperial has recently launched its Year 13 student course and this will be followed in summer 2020 by MEI's online teacher professional development for Year 13 content.

Aims

- To support teachers of high attaining A level Mathematics students through providing and demonstrating practical resources and approaches, adaptable across a range of A level topics.
- To explore, in depth, aspects of mathematics content and pedagogy.
- To create a forum through which teachers can analyse all aspects of the course content with other teachers and course tutors.

Who will benefit from attending?

Teachers with one or more high attaining A level Mathematics students.

Content

Section	Approximate time to complete*
Unit 1: Introduction	Up to 1 hour
Unit 2: Number and algebra	Up to 4 hours
Unit 3: Coordinate geometry	Up to 1 hour
Mid course review	Up to 1 hour
Unit 4: Mechanics	Up to 2 hours
Unit 5: Statistics	Up to 3 hours

*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.

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

Event ref:	#6333
Audience:	Teachers
Curriculum focus:	A level Mathematics
Mathematical focus:	Mechanics, Statistics, Pure, Problem solving, Reasoning
Event format:	On Demand Professional Development
Region:	National
Date:	Self-paced study
Fee:	Free

Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/6333>