



On Demand | Preparing your students for STEP

Online

Self-paced study

Overview

This is an On Demand Professional Development course designed to support teachers who will work with students taking STEP papers. It will also be of interest to any teacher wishing to extend their problem solving skills or enrich their teaching of A level Mathematics or Further Mathematics.

The course comprises a series of 'pods', each covering either a specific method which features in these tests or an overarching concept.

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, a pod or a full course.

Aims

- To introduce teachers to the main aspects of STEP.
- To advise and support teachers who wish to prepare their own students for the tests.
- 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 of Level 3 (post-16) maths.

Content

Section	Topics
Overarching themes in STEP	Introduction to STEP, Exam technique, Problem solving, Proof
Topics in Pure	Sequences and series, Trigonometry, Curves, Differential equations, Vectors
Topics in Further Pure	Number theory, Integration, Hyperbolic functions, Complex numbers, Geometry, Algebra
Topics in Applied Maths: Statistics	Probability distributions, Probability
Topics in Applied Maths: Mechanics	Circular motion, Collisions, Elasticity, Power, Projectiles, Forces

*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:	#5588
Audience:	Teachers
Curriculum focus:	University admissions tests, A level Mathematics, A level Further Mathematics
Mathematical focus:	Pure, Problem solving, Curriculum planning, 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/5588>