



LOPD | A level Maths: Pure (Year 2)

Online Series

8th January 2022

Overview

Live Online Professional Development (LOPD) courses form a programme of innovative online courses, designed to enable teachers to develop their teaching with confidence in a convenient, stress-free way.

LOPD courses are delivered using a browser-based online classroom that allows participants to collaborate online in real time. The courses aim both to cover subject content common to all current specifications and to facilitate the exchange of teaching ideas. Rather than attending a one or two day course away from school or college, participants will use the internet to meet weekly online.

This course comprises 11 online sessions with an experienced tutor, each between 60 and 90 minutes in length and delivered in a small group of teachers allowing opportunities for interaction and discussion.

Any teacher currently based in a state-funded school or college who signs up for this course is encouraged also to apply for our free *On Demand Professional Development* (ODPD) course *Numerical methods for A level mathematics* which allows greater depth of study for this area of the course than we are able to provide in the live online environment. More details are here: [ODPD Numerical methods for A level mathematics](#). We are in the process of adding a further ODPD unit covering *Vectors for A level mathematics* - details will be available soon.

Aims

- To provide teachers with an opportunity to improve or refresh their subject knowledge of the main topics that typically feature in the second year of A level Mathematics: pure.
- To provide opportunities to interact with the course tutors and other delegates in a small group to discuss subject content, resources and teaching ideas.

Who will benefit from attending?

Teachers who are new to offering the pure element of the second year of the A level Mathematics course and those who are seeking to refresh their approach in this context.

Content

- Algebra
- Functions
- Sequences and series
- Trigonometry
- Calculus

Materials and Equipment

You will need access to a good internet connection, using Chrome or Firefox as a browser. You will need a headset with a microphone to engage with the live sessions and most courses also require a means of sharing handwritten maths, such as a mini-whiteboard and webcam, a visualiser or a graphics tablet. Full details of how to set these up can be found on our [online classroom support page](#).

Other Information

The order of topics may be subject to change.

Eligibility

All teachers are eligible for this course, however free places are available only to teachers in state-funded schools, colleges and academies in England. Applications for free places will be checked to verify eligibility.

Teachers must ensure that they are able to attend the live sessions before applying for a place as our courses are subject to very high demand: please do not apply for a place if you will not be able to attend at least 75% of sessions. Further instances of our courses will be added to meet demand; if you are not able to attend 75% of the sessions in this course, you might like to consider completing our [register of interest form](#) (this is NOT an application form) and letting us know when would be better for you.

Cost

This course is free of charge to teachers working in state-funded schools, colleges and academies in England, otherwise the fee is £195.

Study Schedule

Date	Session content
Sat 08 Jan	Algebra
Sat 15 Jan	Sequences and series
Sat 22 Jan	Functions
Sat 29 Jan	Binomial expansion
Sat 05 Feb	Trigonometry 1
Sat 26 Feb	Calculus techniques 1
Sat 05 Mar	Trigonometry 2
Sat 12 Mar	Calculus techniques 2
Sat 19 Mar	Calculus techniques 3
Sat 26 Mar	Calculus techniques 4
Sat 02 Apr	Differential equations

Key Facts

Event ref:	#9157
Audience:	Teachers
Curriculum focus:	A level Mathematics
Mathematical focus:	Pure
Event format:	Live Online Professional Development
Online sessions:	11
Region:	National
Next session:	Sat 22nd Jan 2022
Course times:	09:00 - 10:30
Fee:	Free for state-funded schools; £195 otherwise

Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/9157>

