



Advanced Mathematics
Support Programme®

Continuing Professional
Development
Standard

National Centre
for Excellence in the
Teaching of Mathematics



LOPD | Core Maths common topics

Online series

29th 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 covers the main topics which are common to all Core Maths specifications. Further topics to complete the content for each specification will be available soon via the *On Demand Professional Development* (ODPD) programme.

This course comprises of eight 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.

Aims

- To provide teachers with an opportunity to improve or refresh their subject knowledge of the main topics which are common to all or most Core Maths specifications
- To provide opportunities to interact with course tutors and other delegates in a small group to discuss subject knowledge, resources and teaching ideas

Who will benefit from attending?

This course is suitable for a wide range of Core Maths teachers:

- Teachers who are new to teaching Core Maths
- Those wishing to refresh their teaching of the subject
- Teachers of other A level qualifications that use maths

Content

- Discussion and context to introduce an idea (Fermi estimations and familiar stats)
- Sampling and data
- Probability (Core Maths style)
- Correlation
- Regression
- Using current ideas and topics from the news as applied to methods covered so far
- Exponential Growth
- Financial Maths

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.

A series of On Demand pods designed to complete the content for your Core Maths specification are currently under construction. Please see [Core Maths top-ups](#) for details of eligibility, what is already available and what will be developed soon.

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 29 Jan | Estimation and Stats |
| Sat 05 Feb | Sampling and data |
| Sat 26 Feb | Probability |
| Sat 05 Mar | Correlation |
| Sat 12 Mar | Regression |
| Sat 19 Mar | Using current affairs as a context |
| Sat 26 Mar | Exponential Growth |
| Sat 02 Apr | Financial Maths |

Key Facts

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|---------------------|---|
| Event ref: | #9185 |
| Audience: | Teachers |
| Curriculum focus: | Core Maths |
| Mathematical focus: | Statistics, Problem solving, Use of technology, Curriculum planning |
| Event format: | Live Online Professional Development |
| Online sessions: | 8 |
| Region: | National |
| Start date: | Sat 29th 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/9185>