



# LOPD | Core Maths common topics

## Online Series

5th May 2021

### Overview

**Course length:** One term, weekly sessions

*LOPD | Core Maths common topics* is a Live Online Professional Development course: the synchronous sessions will concentrate on the modelling of subject knowledge delivery including the use of technology and will cover key content from all major specifications Core Maths. Examples of pedagogy will be modelled by the tutors and participants will be encouraged to share their approaches.

### Course features:

- Eight online sessions, approximately weekly, each up to 90 minutes long
- Access to course-specific teaching and learning resources in our Integral online platform
- A year of access to resources and recordings of the live sessions

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 course [On Demand | Core Maths top-ups](#) which covers many additional topics.

### 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

Please note this is not suitable for those wishing to study the content in order to gain a Level 3 qualification.

If this course is not quite what you are looking for, you may like to consider:

- [On Demand | Core Maths top-ups](#)
- [Maths Hub Work Group: Developing Core Maths Pedagogy](#)
- [New to teaching Core Maths Programme](#)

## 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 must have access to audio, to speak as well as listen, to engage with the live sessions and you may also find a means of sharing handwritten maths, such as a mini-whiteboard and webcam, a visualiser or a graphics tablet, useful. Full details of how to set these up can be found on our [online classroom support page](#).

## Frequently Asked Questions

### I am a trainee teacher, can I join this course? Will there be a fee?

Trainee teachers are eligible to join all our LOPD courses, although this will be at the standard fee. If you have already secured a role in a state funded school/college in England, or are undertaking a placement in such a school, and the school is happy to be stated on your application, then you can join the course free of charge.

### I can't make the time or the day that this course is being offered, is there an alternative? Can I access the course via recordings only?

LOPD courses run in seasons and this course will be available again next term. We will also add additional instances of a course if there is sufficient demand in the current season. Please complete the register of interest form giving details of your needs and this will be taken into account in our planning. We will then contact you as soon as a suitable course becomes available.

LOPD courses are designed specifically for synchronous study and we feel strongly that live attendance, where you can interact with the tutor and other participants, is necessary to get the best experience of the course. We would recommend therefore that you seek alternative professional development which fits with your situation.

If, however, this is the only opportunity available, we will accept recordings-only participation. We would appreciate it if you would make it clear on your application that this is what you require as the viability of our courses depends on live participation numbers.

Please note that if you do not attend the live sessions, you will not qualify for a course certificate and any fees due will remain unchanged.

### Will this course include ideas for teaching the content as well as subject knowledge?

This course will take a peer-to-peer approach: we will be delivering subject knowledge whilst modelling recommended pedagogies. Participants will be encouraged to reflect on the practices demonstrated as well as their own teaching approaches to the content. If you require greater focus on pedagogy, we recommend the [Maths Hub Work Group: Developing Core Maths Pedagogy](#).

### Will this course cover all of the topics in my specification?

LOPD courses cover a majority of the topics in each of the major specifications for the relevant course but should not be considered comprehensive. We will ensure a focus on those parts of the content which we feel teachers would find most useful: this will mean the some topics are touched on only lightly to allow more depth of work in the key areas. If you require more comprehensive cover, we recommend also applying for our [On Demand | Core Maths top-ups](#) course.

## 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
Wed 05 May	Estimation and stats
Wed 12 May	Sampling and data
Wed 19 May	Probability (Core Maths style)
Wed 26 May	Correlation
Wed 09 Jun	Regression
Wed 16 Jun	Using current affairs as a context
Wed 23 Jun	Exponential Growth
Wed 30 Jun	Financial Maths

## Key Facts

<b>Event ref:</b>	#8270
<b>Audience:</b>	Teachers
<b>Curriculum focus:</b>	Core Maths
<b>Mathematical focus:</b>	Statistics, Problem solving, Use of technology, Curriculum planning
<b>Event format:</b>	Live Online Professional Development
<b>Online sessions:</b>	8
<b>Region:</b>	National
<b>Start date:</b>	Wed 5th May 2021
<b>Course times:</b>	17:30 - 19:00
<b>Fee:</b>	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/8270>