



LOPD | AS and A level Maths: Statistics

Online Series

6th May 2021

Overview

Course length: One term, weekly sessions

LOPD | AS and A level Maths: Statistics 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 content from all major specifications for A level Mathematics. Examples of pedagogy will be modelled by the tutors and participants will be encouraged to share their approaches.

Course features:

- Eight (seven + one optional) 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 [ODPD | A level Maths: Statistics top-ups](#) which allows greater depth of study for this area of the course than we are able to provide in the live online environment, including an in-depth look at working with large data sets.

The optional introductory session is intended for those teachers who are fully new to teaching Statistics but can be accessed by anyone participating in the course.

Aims

- To provide teachers with an opportunity to improve or refresh their subject knowledge of the main topics that typically feature in AS & A level statistics
- 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 statistics element of the A level Mathematics course and those who are seeking to refresh their approach in this context. For those who are fully new to teaching statistics, there is an optional preparatory session available before the start of the main course.

If you are a teacher currently based in a state-funded school or college in England, and wish to develop your skills specifically with the large data set, we recommend this free On Demand Professional Development course: [ODPD | A level Maths: Statistics top-ups](#).

Please note this is not suitable for those wishing to study the content in order to gain an A level qualification.

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

- [Teaching Statistics 1 \(TS1\)](#)
- [On Demand | Imperial mA*ths project teacher support](#)

Content

- Optional introductory session for those new to teaching statistics
- Using large data sets (focusing on using the results from analyses)
- Sampling
- Probability
- Binomial distribution including hypothesis testing
- Normal distribution including hypothesis testing

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 our sustained professional development programmes.

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.

There is insufficient time during the live sessions for this course to comprehensively cover working with the large dataset: if you are currently working in a state-funded school in England you can apply for our On Demand course [ODPD | A level Maths: Statistics top-ups](#) for more comprehensive cover of this area.

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
(Thu 06 May)	(Optional initial session for those new to teaching statistics)
Thu 13 May	Using large data sets (focusing on using the results from analyses)
Thu 20 May	Sampling
Thu 27 May	Probability
Thu 10 Jun	Binomial distribution
Thu 17 Jun	Hypothesis testing using the Binomial distribution
Thu 24 Jun	Normal distribution
Thu 01 Jul	Hypothesis testing using Normal distribution

Key Facts

Event ref:	#8292
Audience:	Teachers
Curriculum focus:	A level Mathematics
Mathematical focus:	Statistics
Event format:	Live Online Professional Development
Online sessions:	8
Region:	National
Start date:	Thu 6th May 2021
Course times:	17:30 - 19:00
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/8292>