



LOPD | AS and A level Maths: Statistics

Online series

17th 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 seven 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. An optional introductory session is also available for those teachers who are fully new to teaching Statistics.

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 *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. More details are here: [ODPD A level Maths: Statistics top-ups](#).

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](#).

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 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
(Mon 17 Jan)	(Optional initial session for those new to teaching statistics)
Mon 24 Jan	Using large data sets (focusing on using the results from analyses)
Mon 31 Jan	Sampling
Mon 07 Feb	Probability
Mon 28 Feb	Binomial distribution
Mon 07 Mar	Hypothesis testing using the Binomial distribution
Mon 14 Mar	Normal distribution
Mon 21 Mar	Hypothesis testing using Normal distribution

Key Facts

Event ref:	#9307
Audience:	Teachers
Curriculum focus:	A level Mathematics
Mathematical focus:	Statistics
Event format:	Live Online Professional Development
Online sessions:	7
Region:	National
Next session:	Mon 31st Jan 2022
Course times:	17:00 - 18:30
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/9307>