



## On Demand | A level Maths: Statistics top-ups

### Online

#### Self-paced study

#### Overview

This is an On Demand Professional Development course designed to support teachers who will be offering the Statistics elements in A level Maths, including those using spreadsheets in their work with the large data set.

The course comprises a network of 'pods', designed to complement our Live Online Professional Development (LOPD) course [AS and A level Maths: Statistics](#), enabling teachers to access professional development covering all of the compulsory content for their awarding organisation's specification.

In each pod, teachers will see short videos guiding them through the ideas of the topic along with practice materials, triggers for reflection and suggestions for further study. Teachers will be encouraged to interact and collaborate with others studying the same material via the online forums. An expert tutor will be monitoring the forums and will respond to queries.

The course offers total flexibility regarding when teachers can access the materials, day or night, over a period of up to one year. Teachers will be able to track their progress within the course and to see when they have completed a section, a pod or a full course.

#### Aims

- To introduce teachers to a range of techniques which will enable them to work more confidently with topics in the Statistics section of AS or A level Maths.
- To introduce teachers to a range of techniques which will enable them to work more confidently with the large data set used in their specification for A level Maths.
- To provide opportunities to reflect on subject content, resources and teaching ideas and to discuss these with other teachers via the course forums.

#### Who will benefit from attending?

All teachers involved in the delivery of the Statistics component of A level Maths.

## Content

Section	Topic	Approximate time to complete*
Spreadsheets and the large data set	Introduction to the large data sets	Up to 1 hour
	Using Excel	Up to 1 hour for one
	Using Google Sheets Coming soon!	Up to 1.5 hours for both
	Using GeoGebra	Up to 1 hour
	Sampling and hypothesis testing	Up to 1 hour
Statistics top-ups	Using Desmos for Statistics	Up to 1 hour
	Modelling with bivariate data Coming soon!	Up to 1 hour
	Modelling with probability distributions	Up to 2 hours

\*Timings are approximate and suggest the required time for a topic to be counted on a certificate of participation. Further resources are linked from each section and so participants may, if they wish, spend more time than this in consolidating and reflecting on the content. You do not need to complete all sections to request a certificate.

## Materials and Equipment

Internet connection with capability to watch video. Access to spreadsheet software, ideally Excel, Google Sheets, Desmos and/or GeoGebra for relevant sections.

## Eligibility

Due to the way we are funded, ODPD is only available to teachers in state-funded schools and colleges in England.

## Cost

ODPD is free of charge for qualifying teachers.

## Key Facts

<b>Event ref:</b>	#5590
<b>Audience:</b>	Teachers
<b>Curriculum focus:</b>	A level Mathematics
<b>Mathematical focus:</b>	Statistics, Use of technology
<b>Event format:</b>	On Demand Professional Development
<b>Region:</b>	National
<b>Date:</b>	Self-paced study
<b>Fee:</b>	Free

## Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/5590>