



Advanced Mathematics  
Support Programme®

Continuing Professional  
Development  
Standard

National Centre  
for Excellence in the  
Teaching of Mathematics



# The Large Data Set: Making Lessons Meaningful

## Sandwich, Kent

1st April 2019

### Overview

AS and A level mathematics specifications require students to:

- become familiar with a specific large data set
- use technology to explore the data set
- interpret real data
- use data to investigate questions arising in real contexts

The large data set is an excellent tool to address these requirements. We will consider strategies to access the large data set throughout the statistics component of the course and how it can be used to infuse our teaching and add richness and context to our lessons.

### Aims

- Develop strategies for working with large data sets
- Consider how technology can best be used to explore large data sets
- Investigate strategies to ensure students become familiar with both the content and the context of large data sets
- Consider the implications of an increased focus on interpretation over calculation in A level maths

### Who will benefit from attending?

Teachers currently teaching, or planning to teach, the applied content of A level maths.

Both experienced and inexperienced teachers are welcome to attend.

## Content

09:15-09:30 Registration and refreshments

09:30-10:15 Large data set requirements; what is meant by familiarity with the large data set?

10:15-11:00 The use of stimulus questions and activities; interpreting graphs and summary statistics

11:00-11:15 Break

11:15-12:45 Making use of technology to promote familiarity and understanding of the large data set; Excel, GeoGebra and hands-on activities

12:45-13:30 Lunch

13:30-15:00 Teaching concepts through the large data set; random sampling, correlation and hypothesis testing

15:00-15:15 Break

15:15-16:15 Assessment of the large data set; markschemes and examiners' reports

16:15-16:30 Plenary

## Materials and Equipment

Please bring a laptop or tablet with you, ensuring you have Excel and GeoGebra Classic 5 installed on it.

## Other Information

Please note that we retain the right to retain your booking fee in the event of late cancellation or non-attendance. Trainee teachers are able to attend for free if accompanied by a fee-paying teacher from the same school.

## Key Facts

<b>Event ref:</b>	#5694
<b>Audience:</b>	Teachers
<b>Curriculum focus:</b>	A level Mathematics
<b>Mathematical focus:</b>	Statistics
<b>Event format:</b>	Face-to-face Professional Development
<b>Event length:</b>	1 day
<b>Region:</b>	London and South East
<b>Venue:</b>	Sandwich Technology School, Deal Road, Sandwich, Kent, CT13 0FA
<b>Date:</b>	Mon 1st Apr 2019
<b>Course times:</b>	09:30 - 16:30
<b>Fee:</b>	£50

## Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/5694>