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Development  
Standard

National Centre  
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Teaching of Mathematics



# The Large Data Set: Making Lessons Meaningful

## Maidstone, Kent

26th February 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 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 the context and content of large data sets
- Consider the implications of an increased focus on interpretation over calculation in A level examinations

### Who will benefit from attending?

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

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 Excel and GeoGebra Classic 5 installed on it, with you to the session.

## Other Information

Please note that we retain the right to retain the 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>	#5460
<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>	Sutton Valence School, North Street, Sutton Valence, Maidstone, Kent, ME17 3HL
<b>Date:</b>	Tue 26th Feb 2019
<b>Course times:</b>	09:30 - 16:30
<b>Fee:</b>	Fees for this course are 50.

## Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/5460>