Getting to grips with Statistics in the new A level

Aim of the course

- To introduce the main statistics topics in new A level Mathematics specification.
- To show how technology can be used to illustrate statistical ideas and improve students' understanding.
- To demonstrate effective ways of teaching statistics, including using a large data set.

Is the course appropriate for me?

The ideas will be developed from appropriate GCSE knowledge and thus will provide an introduction for teachers who have not previously taught any statistics beyond GCSE. Teachers familiar with S1 or beyond will learn about the changes in the emphasis and new topics introduced in the new A level but may find parts of the day too basic.
For hands-on time with the different data sets please see the **technology** course.

What background knowledge will be expected?

The ideas will be developed from the GCSE topics of probability (such as the use of tree diagrams for independent events) and data handling (such as calculating GCSE measures of average, spread and drawing diagrams such as histograms).

What do I need to bring on the day?

Only a pen. We will provide a delegate pack and Casio CG-20 graphical calculators for use on the day.

What is the content of the day?

It will give an introduction to the main statistics topics and the changes in the approach to these topics from current S1 modules. Opportunities for incorporating technology and large data sets in your teaching will be highlighted.

What is not covered on the day?

Conditional Probability (which is met in GCSE Mathematics). We will look at Hypothesis Testing at AS level (Binomial) only.

What follow up support can I access?

All materials will be provided electronically on the day. You will also have follow up email support from course tutor.

Outline of the day:

09:30	Arrival, registration and coffee
10:00-11:15	Data Handling and Interpretation using a LDS.
11:30-12:30	Introduction to the Binomial Probability Distribution
13:15-14:15	Introducing Hypothesis Testing
14:30-15:50	Introduction to the Normal Probability Distribution
15:50-16:00	Evaluation

For course fees, application forms and further details please see www.mei.org.uk/2017-pd

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