

The Further Mathematics Support Programme
East Midlands South Maths Hub

Teaching Statistics in A-level Maths

A workgroup for teachers of A-level Maths

Wigston College, Station Road, Wigston, Leicestershire, LE18 2DS

Day 1: Tuesday, 6th March: 9.30 am – 4.00 pm (refreshments available from 9.00 am and lunch will be provided)

Day 2: Thursday, 5th July: 1.30 pm – 4.00 pm



Day 1 will be led by Paul Chillingworth from the FMSP. Paul will show how **technology such as Excel and GeoGebra can enable your students to explore the Large Data Sets** of the various exam boards. He will demonstrate how **the power of graphing and statistical software and spreadsheets can be harnessed to support the learning of statistical concepts.**

Paul will also demonstrate **effective use of the Casio fx-991 Classwiz calculator**, so please bring one along if you have one.

Please note that there will be a **gap task** after Day 1.

In Day 2 the gap task will be discussed as well as exploring areas that **technology can be used within Year 13 Maths.**

Enable your students to effectively use technology to support their learning of statistical concepts.

Please bring a laptop with **GeoGebra Classic 5** installed and a **Casio fx-991 Classwiz** calculator if you have one.

Course aims:

- To provide teachers with an opportunity to see how powerful and widely available graphing and statistical software can be used by students and teachers alike to explore the Large Data Sets - all exam boards will be covered.
- To give teachers time to work on activities designed to allow students to learn statistical concepts whilst simultaneously exploring the Large Data Sets.
- To look at how the Casio fx-991 Classwiz calculator can be used to perform statistical calculations and support learning of concepts such as the Binomial and Normal distributions.
- To look at how spreadsheet simulations can be used to support the teaching of concepts in Probability and Statistics.
- To give teachers the opportunity to do a gap task, share good practice within their department and reflect on their teaching of Statistics in the new A level.

Course dates and times:

Tuesday, 6th March, 9.30 am – 4.00 pm (registration from 9.00 am). Lunch will be provided.

Thursday, 5th July, 1.30 pm – 4.00 pm

Please note that this is a two day course and by signing up you are committing to attending both days.

Venue: Details for how to find Wigston College can be found here:

<http://www.wigstoncollege.org/about-us/find-us/>

Note that there is plenty of space for parking at the site.

Course/event fees and application:

The event is free of charge thanks to the East Midlands South Maths Hub and the Further Mathematics Support Programme.

To apply, please complete the form below and return to niall.bruce@beauchamp.org.uk by February 27th.

For more information email:

Niall Bruce (Beauchamp College): Niall.Bruce@beauchamp.org.uk

Chris Luke (FMSP Area Coordinator for Northants): chrisluke@furthermaths.org.uk

Supporting the Teaching of the New A Level Mathematics Using Technology

Section 1: Applicant's details

Name	
School name and address	
School URN Available from: https://get-information-schools.service.gov.uk/	
Role	
Email address	

Please explain briefly (approx. 100 words) why you wish to participate in this Work Group and what you hope will be the benefits and impact of your participation.

Section 2: Head Teacher/Senior Leader/Head of Department details

Name	
School	
Role	
Email address	

Please explain briefly (approx. 100 words) why the school wishes to participate in the Work Group, including how you anticipate it will impact on the teaching and learning of mathematics

Return of the form indicates your agreement to support the following:

- The applicant being released from school for the face-to-face sessions (2 days)
- The applicant being able to conduct tasks for school-based research and development between sessions
- The applicant being available to complete the post-Work Group evaluation

PLEASE NOTE: *If sessions are missed or school based tasks not completed, the EMSMathsHub reserves the right to make a charge for the place on the Work Group.*

Please return by email to niall.bruce@beauchamp.org.uk by 27th February, 2018