Further Mathematics Conference

London

27th February 2019

Overview

A free one-day professional development and networking conference, dedicated to the teaching of AS and A level Further Mathematics.

The current Education Inspection Framework requires that 'leaders take on or construct a curriculum that is ambitious and designed to give all learners ... the knowledge and cultural capital they need to succeed in life' (Ofsted, 2019). The chance to study Further Mathematics is important for many students, and these conferences are designed to support schools and colleges in embedding this opportunity within their provision.

The 2020 conferences have now taken place. Copies of presentations and resources from the sessions can be found here.

Aims

- Experience interesting and stimulating ways of introducing Further Mathematics topics in the classroom
- Network and share ideas with fellow teachers

Who will benefit from attending?

These conferences are suitable for any teacher who is currently teaching AS or A level Further Mathematics, or who expects to do so in the near future. The content will be relevant to all of the Further Mathematics specifications.

We welcome first time or returning Further Mathematics Conference delegates. Every year offers something new, so please feel free to sign up if you have attended a previous conference.

Content

The day consists of a mixture of plenary and optional sessions exploring specific aspects of A level Further Mathematics.

Optional sessions that were offered at the 2020 Further Mathematics Conferences are detailed below.

Session Title	Session Description
Introduction to complex numbers for beginners (Pure)	In this session we will look at the basic concepts underpinni... students. This session is aimed at teachers with limited exp...
Teaching activities for vectors in Further Pure	A variety of activities for teaching vectors in Further Pure wi... Mathematics.
Calculus in Further Maths: making connections with other topics (Pure)	The calculus topics in Further Pure can appear very 'dry' to... made between some of the integration methods and other t... teachers who are already familiar with the calculus techniqu...
Student use of technology for studying matrices (Pure)	In this session we will investigate using scientific calculators... requested to bring an example of the calculator their studen... GeoGebra (i.e. a phone, tablet or laptop). This hands-on se...
Analysing bivariate data (Statistics)	An exploration of approaches to teaching correlation and re... spreadsheet software and either GeoGebra or Desmos.
Getting a feel for Further Mechanics	In mechanics, students need a firm grasp of the fundament... session we will look at how these apply as students move o... specifications. We will also explore when to trust, and when...
Centre of mass: From balancing to sliding and toppling (Mechanics)	In this session we will use a variety of techniques, including... sense of centre of mass. To get the most out of the session... required to find the centre of mass of a solid or a lamina.
The maths in university admissions tests	Due to the decline in the number of students sitting AS leve... offers for their maths courses. In this session, we will focus... know, how they are expected to think and what the universi... problems to solve.
Offering Further Mathematics	There are many challenges and decisions faced by schools... Although we don't claim to have all the answers, this sessio... structures and options available. We will also consider strat... support offered by the AMSP.
Introduction to the Simplex algorithm (Discrete Mathematics)	For linear programming problems in more than two variable... now a required topic within the discrete/decision mathemati... body. This session will be appropriate for teachers with som... previously taught the Simplex method.
Extending the Simplex algorithm (Discrete Mathematics)	The Simplex method can be adapted to deal with a range o... for the solution of cases where the origin is not in the feasib... basic Simplex or who have attended the previous session 'I...
Using GeoGebra to create teaching files for Further Mathematics	GeoGebra can be used to support the teaching of a large n... how to make files for use in the classroom as well as giving... laptop for this session.

Materials and Equipment

Please note that an electronic device will be required for the following sessions - further details can be found in the corresponding session description:

- Student use of technology for studying matrices (Pure)
- Analysing bivariate data (Statistics)
- Using GeoGebra to create teaching files for Further Mathematics (London only)

Eligibility

Priority will be given to teachers from state-funded schools and colleges.

Programme

09:30 – 10:00 Registration and refreshments
10:00 – 10:20 Welcome and introduction
10:20 – 11:30 Optional session 1
11:30 – 11:50 Tea/coffee
11:50 – 13:00 Optional session 2
13:00 – 13:50 Lunch
13:50 – 14:20 The importance of Further Mathematics: a university perspective
14:20 – 15:30 Optional session 3
15:30 – 15:40 Tea/coffee
15:40 – 16:00 Closing thoughts and feedback

Cost

This conference is free of charge.

Schools and colleges located within Priority Areas are eligible to receive a subsidy of £250 to contribute towards costs related to attendance.

Key Facts

Event ref:	#5373
Audience:	Teachers
Curriculum focus:	A level Further Mathematics
Mathematical focus:	Mechanics, Statistics, Pure, Discrete, Use of technology, Curriculum planning
Event format:	Conference
Event length:	1 day
Region:	London and South East
Venue:	NCVO, 8 All Saints Street, London, N1 9RL
Date:	Wed 27th Feb 2019
Course times:	09:30 - 15:45
Fee:	Free
Priority Area subsidy:	£250

Registration

For more information, or to register for this event, please visit https://amsp.org.uk/events/details/5373