

Further Mathematics Support Programme



A professional development course for teachers:

What? “Further Pure Mathematics for A2 modules”

When? Friday 15th July 9.45am – 3.00pm

Where? King Edward VI School, Bury St Edmunds, Suffolk, IP33 3BH

***Is this course for me?** This course is suitable for teachers who have had little or no experience of teaching topics from FP2 and/or FP3. However, knowledge of A2 Core Mathematics is assumed and it would be useful to have some knowledge of the relevant FP1 topics that are developed further in this course. Teaching and learning resources will be explored so this course is also applicable to teachers who have taught the content of the module but may be looking for fresh ideas for use in the classroom. The content of the course is suitable for all exam specifications (MEI, Edexcel, AQA & OCR). Please refer to the mapping table overleaf.*

This one day course is planned with the following aims in mind:

- To strengthen teachers’ understanding of some of the topics in Further Pure Mathematics beyond AS level.
- To begin to explore classroom resources, including ICT, to illustrate concepts and to help improve students’ understanding.

Course tutors: Steve Wall and Sharon Tripconey (details overleaf)

Course Fee: £100*

Please note this fee is ***reduced to £50** for teachers from schools and colleges that are registered with the Further Mathematics Support Programme.

Registration is free. To register please visit: <http://www.furthermaths.org.uk/Eregister.php>

Cheques payable to ‘University of Cambridge’ and posted to Margaret Bull, Centre for Mathematical Sciences, Wilberforce Road, Cambridge CB3 0WA

9.45 Arrival and tea/ coffee

10.00 An overview of A level Further Mathematics across the different exam specifications and online resources available to support teachers and students.

10.15 Complex Numbers

11.15 Refreshments

11.30 Polar coordinates and curve sketching

12.00 Hyperbolic functions

12.30 Lunch


13.15 Calculus: Integration techniques

14.15 Resources carousel

14.45 Plenary

This schedule is provisional and may be subject to minor change

15.00 Depart

The Further Mathematics Support Programme is managed by  & funded by the DfE

Course content / exam module mapping:

Topic	Edexcel	AQA	OCR	OCR(MEI)
Complex Numbers	FP2	FP2	FP3	FP2
Polar coordinates and curve sketching	FP2	FP3	FP2	FP2
Hyperbolic functions	FP3	FP2	FP2	FP2
Calculus: Integration techniques	FP3	FP2	FP2	FP2

Who are the tutors?

Steve Wall has taught Mathematics for some 36 years in such exotic places as East Grinstead, The Bahamas, Scunthorpe and Suffolk. Whilst in Suffolk he was involved in various initiatives developing and supporting the teaching of mathematics across the county. He was Head of Mathematics at Stowupland High School and then Assistant Head responsible for the schools specialist status in Mathematics and Computing. Steve worked for the Further Mathematics Network as the Further Maths Centre Manager for Suffolk delivering support for both A level Mathematics and Further Mathematics. Steve continues to write the materials for the Eastern Area Year 10 Team Mathematics Challenge and the Year 12 Team Challenge from the distant shores of New Zealand.

Sharon Tripconey is an Area Coordinator for the Further Mathematics Support Programme and Assistant Leader for FMSP professional development. She is based at the Centre for Mathematical Sciences, Cambridge University working within the Millennium Mathematics Project (MMP). After graduating in mathematics at Exeter University, she qualified as a teacher and started her career teaching maths in secondary comprehensive schools with a particular interest in Post 16 teaching & learning. Her career has included periods as a Head of Mathematics and as an Advisory Consultant. She has written and delivered online course materials to support teachers' professional development in Further Pure Mathematics.