

Further Mathematics Support Programme

A professional development course for teachers:

What? Introduction to Mechanics 1: Forces and Motion

When? Thursday 14th July, 9.30am - 4.00pm

Where? University of East Anglia, Norwich, NR4 7TJ

***Is this course for me?** This course is suitable for teachers who have little or no experience of teaching Mechanics (but have taught Maths up to GCSE Higher)*

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

- To introduce motion-time graphs and make links with the equations used for modelling constant acceleration
- To introduce Newton's Laws of motion and provide examples for applying these laws.
- To provide a basis of understanding for teachers to build on
- To strengthen teachers' understanding of some of the common topics in Mechanics 1 modules.
- To begin to explore how ICT and simple practical work can be used to illustrate concepts and improve students' understanding.

Course tutors: Sharon Tripconey and Glyn Warnes (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

9.30 Arrival and coffee

10.00 Motion-time graphs

11.15 Refreshments

11.30 Modelling constant acceleration

12.30 Lunch

1.15 Force: Introduction to Newton's Laws


2.30 Refreshments

2.45 Newton's Laws: Problem solving

3.45 Modelling, problem solving strategies, common errors and misconceptions in Mechanics

4pm Depart

The programme is provisional and may be subject to minor change

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

Who are the tutors?

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. After graduating in mathematics at Exeter University, she qualified as a teacher and started her career teaching maths in secondary comprehensive schools. Her career has included periods as a Head of Mathematics and as an Advisory Consultant. Sharon has a particular interest in the teaching and learning of Mechanics at A level. She has written and delivered online course materials to support teachers' professional development in Mechanics.

Glyn Warnes supports the work of the Further Mathematics Support Programme in Norfolk working in collaboration with the University of East Anglia. Glyn tutors students, organises events, competitions and works with local schools to promote Further Mathematics in Norfolk. Glyn is an experienced classroom teacher and he has supported teachers in Norfolk to deliver Further Mathematics.