

The Further Mathematics Support Programme

Introduction to Mechanics for beginners 2017

A one day beginners' course for teachers who are new to teaching mechanics.

Loughborough University, Schofield Building, Room 0.13, LE11 3TU
Wednesday 8th November 2017 09:15 – 16:00



This course for teachers who have not previously taught mechanics. It will cover the key topics of motion and force which underpin the mechanics content in the new Maths AS/A Level.

Prior knowledge

Knowledge of GCSE Higher tier content and a working knowledge of AS pure mathematics is desirable, but not essential.

Course aims:

- To introduce the fundamental concepts of motion and force
- To provide a basis of understanding of underpinning ideas for teachers to build upon
- To explore and discuss classroom activities including simple practical work

Timetable for the day:

09.15	Arrival and registration
09.45	Welcome and introductions
10:00	Motion-time graphs <i>Exploring kinematics and understanding and using associated language: position; displacement; distance travelled; velocity; speed; acceleration.</i>
11:30	Break
11.45	Modelling constant acceleration <i>Deriving equations associated with constant acceleration and making links</i>
12.30	Lunch
13:15	Vectors and Forces <i>Combining vectors Types of force, including weight Drawing force diagrams</i>
14:30	Break
14.45	Newton's Laws of Motion <i>A brief introduction to the three laws of motion</i>
15.45	Modelling in Mechanics
16.00	Depart

Venue:

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Course/event fees and application:

Fees for this course/event are £50 and will include light refreshments and lunch.

To apply, please complete the online form at: <http://bit.ly/2vVx9W9> and send Cheque for £50 to:

Nicola Timson

Room 0.16

Schofield Building

Loughborough University **LE11 3TU**

Confirmation and Joining Details will be sent upon receipt of cheque.

Further information

More details about this course/event can be found at:

www.furthermaths.org.uk/?page=relevantcourse

For more information email:

nickitimson@furthermaths.org.uk