

The Further Mathematics Support Programme

Upskilling for the 2017 Maths A Level: from M1 to Mechanics

A half day course preparing M1 teachers for the compulsory mechanics content that is new to them.

University of Hertfordshire, Bayfordbury Campus, SG13 8LD

Monday 26th June 2017 12:30pm – 4:30pm



This course is for teachers who have taught M1 from one of the current modular specifications but have not covered some additional content that is now required for A level Mathematics.

Course aims:

- To introduce teachers to mechanics topics that are new to them
- To provide teachers with an opportunity to discuss teaching strategies and student misconceptions
- To enable teachers to explore tasks that develop understanding

More information

Delegates will be expected to be familiar with M1 topics that are common to all four modular specifications namely, motion graphs, constant acceleration formulae (suvat), forces (including resolving forces) and Newton's laws.

The course will include the following topics:

- **Projectile motion** *[not in M1 for Edexcel and OCR(A)]*
- **Variable acceleration** *[not in M1 for Edexcel and AQA]*
- **A model for friction** *[not in M1 OCR(MEI)]*
- **Moments** *[not in M1 for AQA, OCR(A) and OCR(MEI)]*

Timetable for the day:

- 12:30 Registration and lunch (shared with delegates for the morning session on statistics)
- 13:00 Projectiles and variable acceleration including vectors
Generating discussion
Explanations
Technology to support understanding
Strategies for solving problems
- 14:30 Refreshments
- 14:45 Friction and moments
Practical experiments
Modelling assumptions
Algebraic strategies
Misconceptions
- 16.15 Plenary and feedback
- 16:30 Close

Venue: Regional Science Learning Centre, Bayfordbury Observatory, Bayfordbury, Hertford, SG13 8LD

<http://www.herts.ac.uk/bayfordbury/bayfordbury-observatory/visit-bayfordbury-observatory/where-to-find-bayfordbury-observatory>

Course fees and application:

Fees for this course are £30 for schools registered with the FMSP. Delegates who also wish to attend the morning session "Upskilling for the 2017 Maths A Level: from S1 to Statistics" may attend both for a combined fee of £50.

To apply, please complete the online form at: <https://goo.gl/forms/cFrVqVTB20PhCSOH3>

Further information

Details about this course and other courses can be found at: http://furthermaths.org.uk/EE_CPD

For more information email: valpritchard@furthermaths.org.uk