

The Further Mathematics Support Programme

Teaching Mechanics in the 2017 A Level classroom.

A comprehensive look at modelling and developing Mechanics teaching for the 2017 Mathematics A Level course; offer as four bite sized courses.

Hosted at Plymouth University

Wednesday, 4pm to 6:45pm

October 4th, October 18th, November 8th and November 29th



This is a set of Mechanics courses which are ideal for all teachers who will be teaching the A Level Mathematics course from September 2017. They are particularly suitable for teachers who are new to teaching Mechanics, or who would like some fresh ideas on the introduction and development of topics.

Each course will look at how to model situations, give some practical approaches to teaching and develop concepts in Mechanics for A Level Mathematics.

Teachers can attend individual courses or can attend the whole series.

Course Outline:

Wednesday 4th October:

Kinematics

Wednesday 18th October:

Forces and equilibrium

Wednesday 8th November:

Newton's laws and connected particles

Wednesday 29th November:

Projectiles and moments

Additional information

Teachers are welcome to attend all courses, but may alternatively choose to attend those courses most appropriate. For example; just the "Projectiles and moments" course or alternatively any combination of two or three courses. Dr Ted Graham will be delivering these courses.

Each course aims:

- To provide teachers with an opportunity to develop key Mechanics concepts
- To enable teachers to see how practical ideas and modelling can be used in the introduction and teaching of Mechanics
- To give teachers the opportunity to use resources and work on problems in Mechanics

More information about each of the courses:

Kinematics:

- Motion in 1 and 2 dimensions
- Kinematics graphs
- Constant and variable acceleration

Forces:

- Identification and representation of forces
- Application of vectors to forces

Newton's laws and connected particles:

- Applying Newton's laws to a particle
- Developing Newton's laws to connected particles

Projectiles and moments:

- Motion under gravity in two dimensions
- Rigid bodies in equilibrium

Timetable for each course: (there will be flexibility in the timings during the course)

- 16:00 Registration and refreshments
- 16:15 Modelling and practical approaches
- 17:15 Refreshments
- 17:30 Resources, ideas, discussion
- 16:30 Plenary and feedback

Venue: Plymouth University:

<https://www.plymouth.ac.uk/your-university/visit/getting-here>

Course fees and application:

Fees for each course is £25, if you are attending all courses this will be reduced to £75

To apply, please complete the online form at: <https://goo.gl/forms/itsOmgjBumem0YDQ2>

Further information

For more information email:

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