

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; offered as four bite sized courses.

Hosted at Wycliffe College, Stonehouse, GL10 2JQ

Thursday, 4pm to 6:45pm

September 27th, October 11th, November 8th and November 22nd



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:

Thursday 27th September:

Kinematics

Thursday 11th October:

Forces and equilibrium

Thursday 8th November:

Newton's laws and connected particles

Thursday 22nd 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.

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
18:30	Plenary and feedback

Venue:

Wycliffe College
Bath Rd
Stonehouse
GL10 2JQ

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/P1UakpgwiZotPgWO2>

Further information

For more information email:

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