



Advanced Mathematics
Support Programme®

Continuing Professional
Development
Standard

National Centre
for Excellence in the
Teaching of Mathematics



One-day Mechanics CPD Day

Derby

8th January 2019

Overview

A one-day event for teachers to develop their own subject knowledge and classroom practice.

This professional development is suitable for any teachers wishing to develop their own subject knowledge and classroom practice in teaching mechanics for the new A level maths specification. We will focus on the compulsory content of the Year 2 mechanics components of the qualification.

The course will suit teachers who have taught the M1 modules on the legacy A levels, and who want to upskill to mechanics in the new A levels. Delegates will be shown some practical demonstrations of mechanics principles, and there will be a lot of discussion of modelling. Delegates will be encouraged to try a range of questions themselves.

Aims

- gain a deep understanding of the principles of mechanics
- develop skills with mathematical modelling and problem solving
- develop confidence with incorporating practical work within mathematics teaching
- improve subject knowledge and build on pedagogical skills
- link topics in mechanics with other areas of mathematics

Content

Tentative Timetable:

9.30am - Arrival

10am - Kinematics in two dimensions with variable acceleration, and projectiles

11.30am - Break

11.40am - A model for friction, and Newton's laws

1.10pm - Lunch

1.40pm - Rigid bodies and moments

3.10pm - Plenary

3.30pm - End of day

Other Information

Presenter Details:

After taking a degree in maths and PhD in applied maths, Dr Luke began his teaching career in Dublin, where he taught maths, applied maths and physics. After moving back to the UK in 2005, Dr Luke taught A level Maths and Further Maths at a school in the East Midlands, where he regularly taught M1, M2 and M3 modules from the legacy Edexcel specification. He has a lot of experience in problem-solving mathematics and he works as a mentor on the UKMT's senior mentoring scheme. Since 2017, he has worked for the AMSP (formerly the FMSP) as the Area Coordinator for Northamptonshire.

Cost

This event is £50 per teacher for schools registered with the AMSP.

Key Facts

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| Event ref: | #5167 |
| Audience: | Teachers |
| Curriculum focus: | A level Mathematics |
| Mathematical focus: | Mechanics |
| Event format: | Face-to-face Professional Development |
| Event length: | 1 day |
| Region: | East Midlands |
| Venue: | Derby University, Kedleston Road, Derby, DE22 1GB |
| Date: | Tue 8th Jan 2019 |
| Course times: | 09:30 - 15:30 |
| Fee: | £50 |

Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/5167>