



## A level Mechanics: Year 1 Content

### Gravesend, Kent

4th December 2019

#### Overview

This is a one day course to help prepare teachers to teach the Mechanics part of the A level specification either for the first time or to refresh the subject knowledge of teachers who have not taught this application in recent years.

This day will focus on the Year 1 content and will include Modelling, Kinematics, Forces and Vectors and Variable Acceleration.

#### Aims

- To strengthen teachers understanding of the key mechanics topics in the 2017 AS level specifications
- To demonstrate teaching ideas and resources, including simple practical work and ICT, which will promote student understanding of mechanics concepts

#### Who will benefit from attending?

Teachers who are new to teaching Mechanics or have not taught Mechanics in recent years

#### Content

- 09.15 - 09.30 Registration and refreshments
- 09.30 - 10.30 **Vectors and Forces** - Thought experiments and short practicals
- 10.30 - 11.30 **Kinematics** - Motion with constant and with variable acceleration
- 11.30 - 11.45 Refreshments
- 11.45 - 13.00 **Newton's Laws of Motion** - Statics and Dynamics
- 13.00 - 13.30 Lunch
- 13.30 - 14.45 **Extending the Model - Projectiles and moments**
- 14.45 - 15.00 Plenary and Evaluations
- 15.00 Finish

#### Materials and Equipment

Delegates will need to bring along a laptop for use during the day.

## Eligibility

All teachers are eligible to apply, although priority will be given to teachers from state-funded schools.

## Cost

This course is provided free of charge.

Schools and colleges located within [Priority Areas](#) are eligible to receive a subsidy of £250 to support staff cover and travel costs. For more information, visit our [subsidies](#) page.

## Key Facts

<b>Event ref:</b>	#6156
<b>Audience:</b>	Teachers
<b>Curriculum focus:</b>	A level Mathematics
<b>Mathematical focus:</b>	Mechanics
<b>Event format:</b>	Face-to-face Professional Development
<b>Event length:</b>	1 day
<b>Region:</b>	London and South East
<b>Venue:</b>	St George's Church of England School, Meadow Road, Gravesend, KENT, DA11 7LS
<b>Date:</b>	Wed 4th Dec 2019
<b>Course times:</b>	09:15 - 15:00
<b>Fee:</b>	FREE
<b>Priority Area subsidy:</b>	£250

## Registration

For more information, or to register for this event, please visit <https://dev.amspace.org.uk/events/details/6156>