



Advanced Mathematics
Support Programme®



Year 9/10 Mechanics Day

Wolverhampton

13th February 2019

Overview

The AMSP and the University of Wolverhampton are hosting a FREE Mechanics Day aimed at students in Years 9 and 10. The day will include a number of hands on workshops all based around different areas of Mechanics and a closing plenary from our fantastic keynote speaker, Dr Hugh Hunt, Boomerangs, Bouncing Balls and Other Spinning Things.

Who will benefit from attending?

Students from years 9 and 10 who have a general interest in maths in the real world.

Content

Workshops will include

Too much friction?

Centre of mass

Mechanics Maths Magic

In his plenary talk "Boomerangs, Bouncing Balls and Other Spinning Things", Dr Hunt will consider why does a spinning top stand up? Why doesn't a rolling wheel fall over? Why is top-spin so effective in tennis? How does a falling cat always manage to land on its feet? How can the Hubble Space Telescope turn around in space? What do ice-skaters do to spin so fast? We'll look closely at the common threads that link all spinning things, and that means we'll have to talk about gyroscopes. Don't worry, there won't be any maths. Everything will be demonstrated live with lots of toys and videos. And we'll even throw a few indoor boomerangs - hoping not to break any windows!

Other Information

Initially we are limiting places to 10 students per school.

Students will need to bring a packed lunch but lunch will be provided for staff.

We can arrange minibus parking if required. Please email liz.price@wlv.ac.uk to arrange this.

Key Facts

Event ref:	#5502
Audience:	Students
Target year:	Year 9 & 10
Curriculum focus:	11-16 maths
Mathematical focus:	Mechanics
Event format:	Enrichment
Event length:	1 day
Region:	West Midlands
Venue:	University of Wolverhampton, City Campus, Wulfruna Street, Wolverhampton, West Midlands, WV1 1LY
Date:	Wed 13th Feb 2019
Course times:	09:30 - 15:30
Fee:	This event is free

Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/5502>