

The Further Mathematics Support Programme

# Student and Teacher Problem Solving Conference

A one day conference for both students and teachers aimed at developing problem solving skills at A level.

University of Leeds

Thursday 12<sup>th</sup> July 2018

09.30 – 15.15



Mathematical problem solving is one of the overarching themes of the AS and A level.

This conference is designed to give students some key thinking skills that are useful when solving problems.

Students will encounter a variety of problems covering a range of topics at AS and A level.

Teachers will be given the opportunity to solve the same problems as their students. They will also be provided with information about university admissions tests including sources of support for students who will be sitting them.

**This conference is for year 12 students who are studying AS and A level mathematics and their teachers.**

## Conference aims:

- To provide students with a variety of problem solving experiences
- To provide students with useful problem solving skills
- To encourage students to be confident in their mathematical problem solving skills
- To provide teachers with ideas for introducing mathematical problem solving
- To provide teachers with information about university admissions tests requiring mathematics
- To provide teachers with information about support for students sitting admissions tests

**The conference will consist of the following workshops**

Workshop A	Workshop B	Workshop C	Workshop D	Workshop E (teachers)
Getting started – asking the right questions	Fermi estimates	A menagerie of problems	Key problem solving techniques	Mathematics in university admissions tests

Students will have the opportunity to attend three out of the four workshops.

**Timetable for the day:**

09:30 Arrival  
 09:45 Introduction: the problem solving mindset  
 10:15 Workshop 1  
 11.15 Workshop 2  
 12:15 Lunch  
 13:15 Workshop 3  
 14.15 Enrichment talk/Teacher session  
 15.00 Plenary  
 15.15 Close

**Venue:** University of Leeds, Leeds, LS2 9JT

[https://www.leeds.ac.uk/info/5000/about/131/find\\_us](https://www.leeds.ac.uk/info/5000/about/131/find_us)

**Course/event fees and application:**

This event is **free of charge for state funded schools or colleges** thanks to support from the Further Maths Support Programme..

However, if you book a place and then do not attend without letting us know at least two days before the event, you will incur a charge of £100.

Independent schools may book places if the event is not filled by state funded schools, but will be charged £100 per school.

To apply, please complete the online form at: <https://goo.gl/forms/2Wjz5HJovrmedMxa2>

The **closing date** for bookings is **Friday 29th June 2018**.

**Further information**

For more information email:

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