



Advanced Mathematics  
Support Programme®



## Sixth Form Problem Solving Morning

### Ashbourne

1st July 2019

#### Overview

An engaging morning for KS5 students and their maths teacher(s) to develop deeper mathematical problem-solving skills.

#### Aims

- To provide students with an opportunity to begin to increase their depth of mathematical understanding and so gain confidence in attempting more challenging questions and problems.
- To allow students to discuss and try out problem solving strategies, to think about different ways of looking at example problems and how to approach writing solutions.
- Maths teachers are encouraged to attend with their students. They will have the opportunity to work on higher-level problems and learn about potential sources of questions/problems to take back to the classroom.

#### Who will benefit from attending?

This event is ideal for Year 12/13 students who are thinking of applying to study mathematics, engineering or related university courses, or for students who just enjoy solving mathematical problems.

The event will also be useful for maths teachers who would like to gain more experience and ideas of how to introduce problem solving within their own classrooms.

#### Content

##### Tentative Timetable

- **9:00am** Arrival and registration
- **9:30am** Introduction: The Problem-Solving Mindset
- **10:00am** Mini Masterclass - Enrichment lecture on an area of mathematics outside the curriculum
- **10:30am** Session 1 – Getting comfortable with Problem Solving
- **11:20am** Break
- **11:30pm** Session 2 - Writing and Presenting Solutions
- **12:20pm** Closing Plenary
- **12:30pm** Close

#### Other Information

Queen Elizabeth's Grammar School is located in Ashbourne, Derbyshire, which lies at the southern gateway to the Peak District. We reside near the city of Derby and are only 20 miles from the M1. Our nearest airport is East Midlands approximately 30 miles away.

## Cost

Fees for this course/event are FREE

## Key Facts

<b>Event ref:</b>	#5169
<b>Audience:</b>	Students, Teachers
<b>Target year:</b>	Year 12 & 13
<b>Curriculum focus:</b>	University admissions tests, A level Mathematics
<b>Mathematical focus:</b>	Problem solving
<b>Event format:</b>	Enrichment
<b>Event length:</b>	4 hours
<b>Region:</b>	East Midlands
<b>Venue:</b>	Queen Elizabeth's Grammar, The Green Road, Ashbourne, Derbyshire, DE6 1EP
<b>Date:</b>	Mon 1st Jul 2019
<b>Course times:</b>	09:00 - 12:30

## Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/5169>