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## Year 12 Problem Solving Conference

Greenwich

12th February 2022

### Overview

This event is now full.

The event has been incredibly popular and is significantly oversubscribed. As a result, we are looking into additional dates. James will shortly be in contact with everyone who has requested places.

This one day problem solving conference is designed to support enthusiastic year 12 mathematicians to improve their problem solving skills.

The day will feature a number of sessions:

- **Writing Mathematically** – How can we best communicate our thoughts, process and methods to ensure that others fully understand our written methods? This session will aim to improve the quality of your written mathematics so that your meaning is always understood.
- **Problem Solving Techniques** – problem solving is tough. By considering a mathematical problem, this session will focus on what can be done to reduce the level of challenge and help you find ways into problems.
- **Asking the Right Questions** – We know that asking questions can make situations easier, however it can be tough to know which questions. In this session we'll consider all the many bits of knowledge that we do have, and how this can help in a variety of different situations.
- **Applying for University** – In this session we'll explore the variety of different maths courses available at university, some of the different entry requirements (and how these could be reduced). This session will focus on maths courses, but would be useful to anyone planning to apply for university who is studying A Level Maths. We'll also introduce university admissions tests, how to identify if these will be required and the assistance available to support students to prepare for these.

### Aims

- Help Year 12 students develop and enhance their problem-solving skills.
- Introduce students to some of the problems used in university entrance tests
- To increase student awareness of the prevalence of university admissions tests.

## Who will benefit from attending?

This day would suit any year 12 student studying AS A Level Maths who wish to develop their problem solving skills. It would be especially useful to students planning to study a STEM based degree at university. We'll also consider how university admissions test questions may support problem solving skills.

Students do not need to attend with teachers, although teachers would be equally welcome. Please note that the event is likely to be on the Saturday in half term (depending on your half term dates).

## Frequently Asked Questions

### Do students need to be accompanied?

No. It is anticipated that students won't be accompanied by parents/carers/teachers (all staff hold valid enhanced DBS certificates).

### Will lunch be provided?

A light lunch will be provided, however students should bring bottled water with them.

### What Covid precautions will be in place?

- Students and staff will be asked to take a lateral flow test on the morning of the event and only attend if this is negative.
- Students and staff will be expected to wear a face mask throughout the day (unless medically exempt). In line with the host university procedures, anyone exempt will be asked to display a badge (details of this will be sent in advance).
- The university is undertaking additional cleaning and more information can be gained by contacting the organiser.
- Details of covid precautions will be reviewed in advance of the event and emailed to participants.

### How many students from each school/college can attend?

Initially we'll cap this at 8 per school/college. However please let us know if you have more students who are interested in attending.

## Eligibility

This event is open and free for year 12 students and teachers from state funded schools, colleges and academies.

Although students must be studying AS/A Level Maths, they do not need to be studying Further Maths.

## Key Facts

<b>Event ref:</b>	#9473
<b>Audience:</b>	Students
<b>Curriculum focus:</b>	A level Mathematics, A level Further Mathematics, University admissions tests
<b>Mathematical focus:</b>	Pure, Problem solving
<b>Event format:</b>	Conference
<b>Event length:</b>	1 day
<b>Region:</b>	London and South East
<b>Venue:</b>	University of Greenwich, Park Row, Greenwich, SE10 9LS
<b>Date:</b>	Sat 12th Feb 2022
<b>Course times:</b>	10:30 - 15:00
<b>Fee:</b>	FREE

## Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/9473>