



Advanced Mathematics  
Support Programme®



# Problem solving and mathematical writing

## Online

25th January 2022

### Overview

This joint student-teacher event is an opportunity to develop mathematical writing and problem-solving skills for A level and beyond. There is also an additional focus on university admission tests for STEM degrees.

There will be activities to do throughout the event. Students and teachers are encouraged to try the problems together in your classrooms.

### Aims

- To develop problem-solving skills for maths and further maths A level
- To provide information about STEM courses at university
- To develop mathematical writing skills

### Who will benefit from attending?

This event is suitable for A level maths students who wish to develop their problem-solving skills, who may be considering STEM courses at university and who want to develop their mathematical writing skills. Teachers who wish to know more about admissions tests will also find this beneficial.

### Content

During this event we will consider the following:

- Thinking about university
- Writing like a mathematician
- Solving problems

with opportunities for students to work on some problems with their teachers during the event.

## Materials and Equipment

Students should be prepared to solve maths problems and so will need pens, pencils and paper.

Calculators are NOT required!

We are planning to use *Itempool* in order that students can engage anonymously with questions in the session on Thinking about University. A smartphone is ideal for this but if you don't have one it is not a barrier to benefitting from the session.

## Other Information

The event will comprise of three presentations, with activities for students to engage in with their teachers. There will be a Q&A function to enable students and teachers to ask questions, which may then be referenced by the presenters.

The event be delivered online. Teachers should sign up to the event on behalf of their students and will be sent detailed joining instructions before the event and again on the morning of the event.

## Key Facts

<b>Event ref:</b>	#9357
<b>Audience:</b>	Students, Teachers
<b>Target year:</b>	Year 12
<b>Curriculum focus:</b>	A level Mathematics, A level Further Mathematics, University admissions tests
<b>Mathematical focus:</b>	Pure, Problem solving, Reasoning
<b>Event format:</b>	Enrichment
<b>Event length:</b>	1.5 hours
<b>Region:</b>	South West
<b>Date:</b>	Tue 25th Jan 2022
<b>Course times:</b>	13:00 - 14:30

## Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/9357>