



Advanced Mathematics
Support Programme®



Building Confidence in Problem Solving Online

12th January 2022

Overview

This course is no longer accepting request for places. James will be in contact soon with everyone who submitted a request.

A series of maths problem-solving sessions designed to increase confidence and problem solving skills in students aspiring to B or C grades in A Level maths.

These regular classes offer students the opportunity to develop mathematical problem-solving skills through discussion and collaboration. They are designed to help students to develop strategies and confidence when tackling unfamiliar problems in maths. This course is specifically targeted at students aspiring to B or C grades so that they can work with students working at similar levels. We have other courses which would be more appropriate for students aspiring to A or A* grades.

At the same time, the problems used in the course are fun and rewarding. Attending the sessions will greatly enrich students' mathematical experience and help them to develop a better understanding of A level Mathematics.

Aims

- To develop initial strategies when dealing with maths problems
- To develop confidence when dealing with maths problems
- To provide a platform on which to build secure problem solving techniques

Who will benefit from attending?

The course is designed for A level Mathematics students who have an enquiring mind and wish to develop their problem solving ability for their A level studies and beyond. It is specifically targeted at students likely to achieve a grade B or C.

Content

The course covers a wide range of mathematical disciplines and may include:

- Algebra: the difference between two squares and other identities
- Number: digits and divisibility
- Algebra: forming and solving equations
- Logic
- Geometry: angles, triangle and circles
- Combinatorics: systematic counting
- Algebra: quadratics, cubics and other polynomials
- Calculus: curve sketching and differentiation
- Number: exponentials and logarithms

Materials and Equipment

If the classes are being held online, you will need access to suitable equipment. You are advised to use a headset or headphones with an inline microphone to provide the best sound quality and to prevent audio issues for other users. A laptop with a built-in webcam and microphone may be sufficient if you're in a quiet area but please take the time to check this before the session. BBB is designed to be used on a variety of platforms but you will get the best experience via a desktop or laptop computer, running either Google Chrome or Mozilla Firefox as the browser.

Note: Internet Explorer and Edge are not suitable currently.

Access to GeoGebra or desmos will also be useful.

Key Facts

Event ref:	#9139
Audience:	Students
Target year:	Year 12
Curriculum focus:	A level Mathematics
Mathematical focus:	Pure, Problem solving
Event format:	Student course
Region:	London and South East
Venue:	Online
Next session:	Wed 2nd Feb 2022
Course times:	17:00 - 18:30

Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/9139>