



Advanced Mathematics
Support Programme®

Continuing Professional
Development
Standard

National Centre
for Excellence in the
Teaching of Mathematics



Supporting Students with Higher Level Problem Solving - STEP

Burgess Hill, West Sussex

2nd October 2019

Overview

A one day course focusing on the development of a problem-solving mindset and strategies for preparing students for STEP examinations

Course Leader, **Luciano Rila**, works in the Department of Mathematics at UCL and is an Area Coordinator for the Advanced Maths Support Programme. He has been running STEP courses for a number of years and also offers preparation for the Oxford MAT.

Aims

- To establish the progression from A level mathematics to STEP
- To identify techniques and strategies needed for success in STEP examinations
- To provide teachers with a road map to STEP support

Who will benefit from attending?

Suitable for teachers of A level Mathematics and Further Maths who wish to support their students with the STEP examinations.

Content

Topics will include

- exploring the difference between A level Maths/Further Maths and STEP
- necessary (but not sufficient) framework for STEP support
- proofs and curve sketching

Other Information

Provisional Programme

9:15 - Welcome and refreshments

9:30 - Session 1: **Introduction to A level verses STEP** (the aim of this session is to present an introduction to STEP papers and establish the progression from A level to STEP 3, highlighting the differences between A level and STEP skills)

11:00 - break

11:15 - Session 2: **Curve sketching**: (Curve sketching is a common issue with STEP candidates, often highlighted in the examiner's report. This session aims to cover the techniques needed in the STEP papers. There will be time for teachers to attempt past paper questions.

12:45 - lunch (provided)

13:30 - session 3: **Proofs and lessons from the examiner's report** (examiner's reports are invaluable documents that shed light on the common weaknesses of STEP candidates. They should therefore inform the support we offer. The session addresses strategic skills that are often neglected in STEP preparation but that can make or break a candidate. We will focus on questions on proof to investigate the issue.

15:15 - Break

15:30 - Session 4: **Supporting your students with STEP preparation** (The closing session is a roadmap to resources and suggestions on how to support your students in their preparation for the STEP papers.

16:00 - End

Key Facts

Event ref:	#6178
Audience:	Teachers
Curriculum focus:	University admissions tests
Event format:	Face-to-face Professional Development
Event length:	1 day
Region:	South
Venue:	Burgess Hill Girls, Keymer Road, Burgess Hill, West Sussex, RH15 0EG
Date:	Wed 2nd Oct 2019
Course times:	09:15 - 16:00
Fee:	Free
Priority Area subsidy:	£200

Registration

For more information, or to register for this event, please visit <https://dev.amsp.org.uk/events/details/6178>