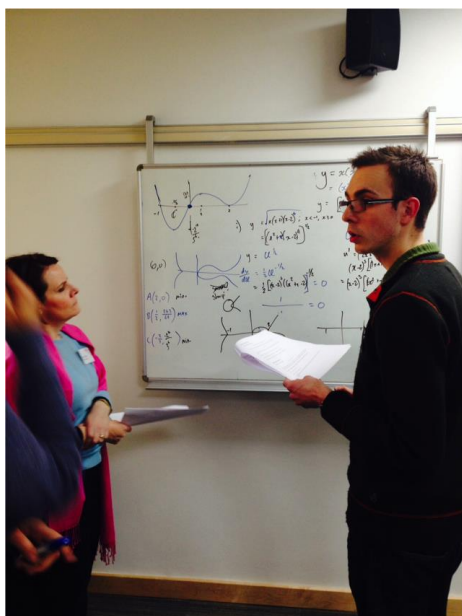


The Further Mathematics Support Programme

# An Introduction to STEP Mathematics

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

Kingston University (Penrhyn Road Campus)  
Monday 3<sup>rd</sup> July 2017



The course leader has been running very successful STEP courses for students for many years. The aim of the course is to offer teachers a roadmap to STEP support. Topics include exploring the difference between A-level Maths/Further Maths and STEP, necessary (but not sufficient) framework for STEP support, proofs, and curve sketching.

Feedback from last year's course included:

An excellent stimulating introduction to a STEP newbie. I've caught the bug!

Luciano is an excellent speaker and really knows how to break down the key ideas of the STEP materials and the challenge they bring

9:15-9:30: Registration and refreshments

9:30-11:00: Session 1 – Introduction and A-level vs. STEP

The aim of this session is to present an introduction to the STEP papers and establish the progression from A-level to STEP 3, highlighting the differences between A-level and STEP skills.

11:00-11:15: Break

11:15-12:45: 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. Again there will be time for teachers to attempt some past paper questions.

12:45-13:30: Lunch

13:30-15:15: Session 3 – Proofs and lessons from the Examiners' report

Examiners' reports are invaluable documents that shed light on the common weaknesses of STEP candidates. They should therefore inform the support we offer. This session addresses strategic skills that often neglected in STEP preparation but that can make or break a candidate. We will focus on questions on proof to investigate the issue.

15:15-15:30: Break

15:30-16:00: 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.

## Course Leader

Luciano Rila works in the Department of Mathematics at UCL and is an Area Coordinator for the Further Maths Support Programme. He has been running STEP courses for a number of years and also offers preparation for the Oxford MAT. You can follow him on Twitter @DrTrapezio

**Venue:** Kingston University (Penrhyn Road Campus)

<http://www.kingston.ac.uk/aboutkingstonuniversity/location/directions/penrhynroad/>

## Course fees and application:

The fee for this event is **£50** per teacher (£100 per teacher if school/college is not registered with the FMSP. Registration is quick and free at <http://www.furthermaths.org.uk/register>).

To book a place, please complete the online form at <https://goo.gl/forms/7qF29KeNPffk5Qj42>.