

# Live Online Professional Development in Mathematics

*A range of courses to enable teachers to teach A level Mathematics and A level Further Mathematics with confidence.*

A modern approach to professional development; rather than attending a one or two day course, delegates meet weekly for live, interactive online sessions with a tutor and a small group of teachers.

These courses focus on developing subject knowledge and discussing approaches to teaching.

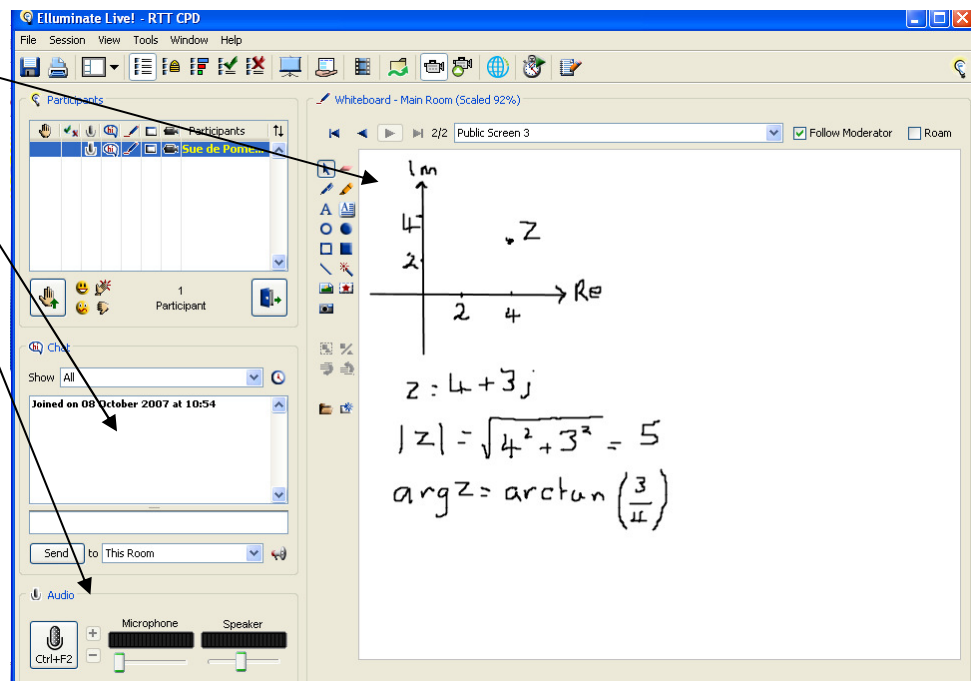
## How does the live online tutoring work?

We use a web-based facility which is easy to use and allows a tutor and delegates to communicate live online using audio, handwriting on a shared virtual whiteboard and instant messaging via the internet.

- Shared whiteboard
- Instant messaging
- Audio conferencing
- Application sharing



Headsets are readily available to purchase on the high street or from online retailers for about £5



## What you need to participate

- A broadband internet connection
- A recent version of Java (free to download)
- A headset for communication

# Preparing students for STEP Mathematics: Cost £85

*January / February 2012*

Deadline for applications: *Friday 16<sup>th</sup> December 2011*

## **Course Content:**

The course will introduce teachers to the aspects of Sixth Term Examination Papers (STEP) with the aim to advise, support and help teachers who wish to prepare their own students for STEP. It will include

- background to the examination and its history
- introduction to the STEP specifications
- guidance on key mathematical concepts that often feature in STEP problems
- trying some STEP questions
- details of resources available
- six one hour live online sessions (including an introductory session)

DATE	TIME:	ONLINE SESSIONS
Wed 4 <sup>th</sup> Jan	17.30-18.30	Introduction to the online classroom (this is scheduled to allow delegates to become familiar with the online classroom before the course commences)
Wed 11 <sup>th</sup> Jan	17.30-18.30	Background and mindset. Outlining available resources for STEP
Wed 18 <sup>th</sup> Jan	17.30-18.30	STEP topics and questions 1
Wed 25 <sup>th</sup> Jan	17.30-18.30	STEP topics and questions 2
Wed 1 <sup>st</sup> Feb	17.30-18.30	STEP topics and questions 3
Wed 8 <sup>th</sup> Feb	17.30-18.30	STEP topics and questions 4

**Please note this schedule is provisional and may be subject to minor changes**

**Course Tutor:** Peter Mitchell has made something of a speciality of STEP Mathematics in recent years. He maintains the website Meikleriggs' Mathematics (<http://meikleriggs.org.uk>) which aims to support students and teachers who are preparing for STEP. He has been the coordinating teacher on the annual Easter school for STEP students in Cambridge since the first in 2004. He was one of the team that resourced the Mathematics in Education and Industry (MEI) series of on-line tutorials for STEP Mathematics.

**Additional support and resources:** Course delegates will be supplied with resources to accompany the online sessions e.g. worksheets and exemplary material for marking STEP. In addition, they will have access to online resources, developed by MEI, designed to support students preparing for STEP. These online resources include: notes, web-links, multiple choice tests with worked solutions, 'Getting Started' questions with worked solutions, past STEP questions sheets and worked solutions including some video worked solutions (suitable for iPod format).

Delegates will also be issued with a username and password to access an online forum which is for all teachers taking LOPD courses; this can be used to access ongoing support from fellow course delegates and LOPD tutors.

**For further information and an application form visit:**

[http://www.furthermaths.org.uk/teacher\\_area/rpd.php](http://www.furthermaths.org.uk/teacher_area/rpd.php)

**Enquiries: [LOPD@furthermaths.org.uk](mailto:LOPD@furthermaths.org.uk)**