

Live Online Professional Development in Mathematics

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

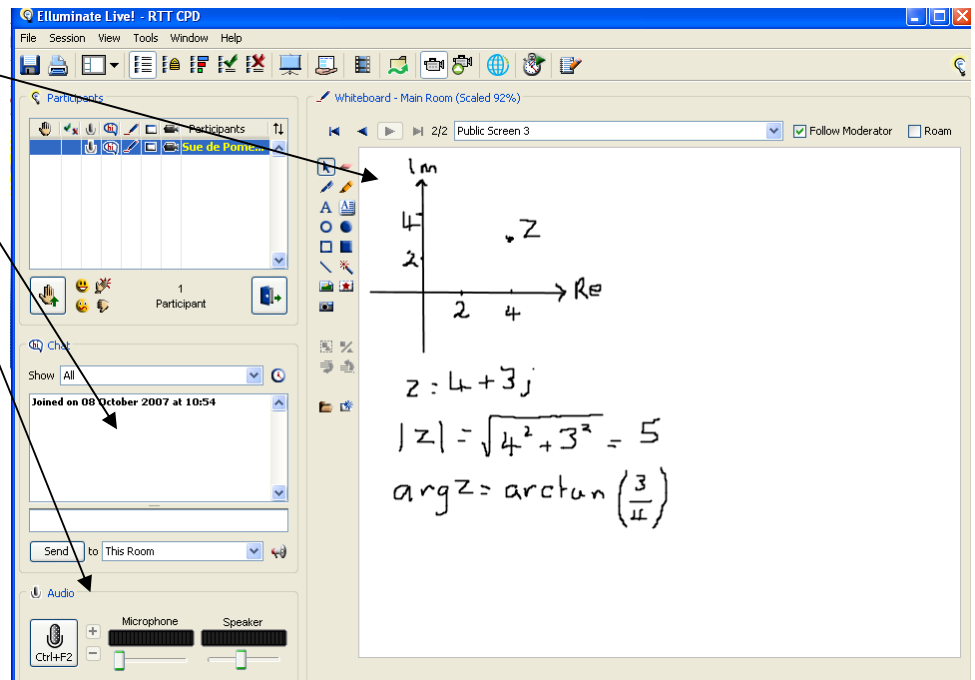
A modern approach to professional development; rather than attending a one or two day course, delegates meet weekly for live, interactive online sessions with a tutor and a small group of teachers.

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

This equipment is readily available to purchase on the high street or from online retailers for about £40

What you need to participate

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

Spring 2010 – Matrices for A2 Further Mathematics - Course fee £75

Deadline for applications: **Friday 16th April 2010**

Course Structure

The course will consist of

- An introductory session; ensuring participants are familiar with the functionality of the online facility and the online teaching and learning resources produced by MEI
- Four 60 – 90 minute live online sessions led by a tutor

DATE	TIME	TOPIC
Wed 21 st April	16.30 – 17.30	Introduction
Wed 28 th April	16.30 – 18.00	1. Linear transformations of column vectors in two and three dimensions and their matrix representation. Combination of transformations. Transpose of a matrix. (Extension of material from FP1)
Wed 5 th May	16.30 – 18.00	2. Determinant and inverse of a 3x3 matrix (reviewing results for 2x2 matrices). Singular and non-singular matrices.
Wed 12 th May	16.30 – 18.00	3. Solving simultaneous equations
Wed 19 th May	16.30 – 18.00	4. Eigenvectors and eigenvalues. Diagonalisation. Cayley Hamilton theorem

All participants will receive

- Online access to resources relevant to A2 Further Pure Mathematics modules
- A course handbook
- Email support from the course tutor

Further Information: This course is one in a **series of seven short courses** that are offered to support teachers' subject knowledge of A2 Further Pure Mathematics:

Module	FP2	FP3	FP4
AQA	Complex Numbers Calculus & Hyperbolics	Differential Equations Polar Curves & Power series	Vector Geometry Matrices
Edexcel	Complex Numbers Polar Curves & Power series Differential Equations	Vector Geometry Calculus & Hyperbolics Matrices	
OCR	Calculus & Hyperbolics Polar Curves & Power series	Group Theory Vector Geometry Complex Numbers Differential Equations	
MEI (OCR)	Complex Numbers Calculus & Hyperbolics Polar Curves & Power series Matrices	Group Theory Vector Geometry	

Application forms: http://www.furthermaths.org.uk/teacher_area/rpd.php

Enquiries: sharontripconey@furthermaths.org.uk

The Further Mathematics support programme is managed by



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