

Live Online Professional Development in Mathematics

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

- ✓ Ideal for teachers who have never taught the mathematical content of an Advanced Level course before or for teachers who simply wish to refresh their subject knowledge
- ✓ Courses cover subject content common to all exam specifications and provide advice on teaching techniques
- ✓ No supply cover is needed as online sessions are scheduled after school hours and are accessible anywhere, even from the comfort of your own home!
- ✓ Weekly interactive sessions delivered 'live' to small groups by experienced tutors
- ✓ Includes access to comprehensive online teaching and learning resources

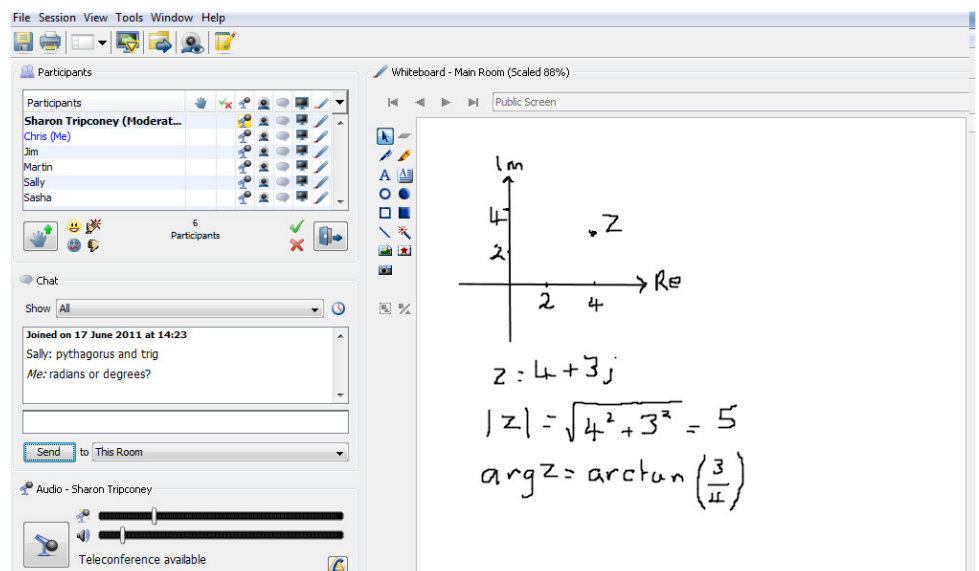
How do the live online courses work?

A web-based facility allows a tutor and delegates to communicate live online

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



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



The screenshot shows a software interface for a live online session. On the left, there is a 'Participants' list with names: Sharon Tripconey (Moderator), Chris (Me), Jim, Martin, Sally, and Sasha. Below the list is a chat window with a message: 'Joined on 17 June 2011 at 14:23 Sally: pythagorus and trig Me: radians or degrees?'. On the right, there is a 'Whiteboard - Main Room (Scaled 88%)' displaying a complex plane with a point Z at (4, 3). The real axis is labeled 'Re' and the imaginary axis is labeled 'Im'. Handwritten mathematical work is visible on the whiteboard:

$$z = 4 + 3j$$

$$|z| = \sqrt{4^2 + 3^2} = 5$$

$$\arg z = \arctan\left(\frac{3}{4}\right)$$

What do 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

LOPD Courses scheduled for 2011/2012:

**Course content covers topics from the
AQA, MEI, OCR, and Edexcel specifications**

AS Core Mathematics

Further Pure Mathematics 1

A2 Core Mathematics

Topics from FP2 & 3:

Mechanics 1

Power series, Polar Coordinates, Complex numbers, Hyperbolic Functions & Calculus

Mechanics 2

Statistics 1

Topics from FP2, 3 & 4:

Statistics 2

Matrices, Differential Equations, Vectors, & Group Theory

Decision Mathematics 1

Decision Mathematics 2

**Courses cost £175 each
(approximately 10 hours online)**

More online CPD opportunities

Using ICT in the Post 16 Mathematics Classroom - £85 (5 hours online)

STEP Support for teachers - £85 (5 hours online)

A flexible approach

If the course you are looking for is not listed then please get in touch and we still may be able to offer online support. We also can provide online professional development courses at convenient times that are tailored to the needs of groups of teachers or a school's mathematics department.

For further information including dates of specific LOPD courses please check the CPD and Teacher Support website pages which can be found by visiting: www.furthermaths.org.uk

Contact: sharontripconey@furthermaths.org.uk