

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.*

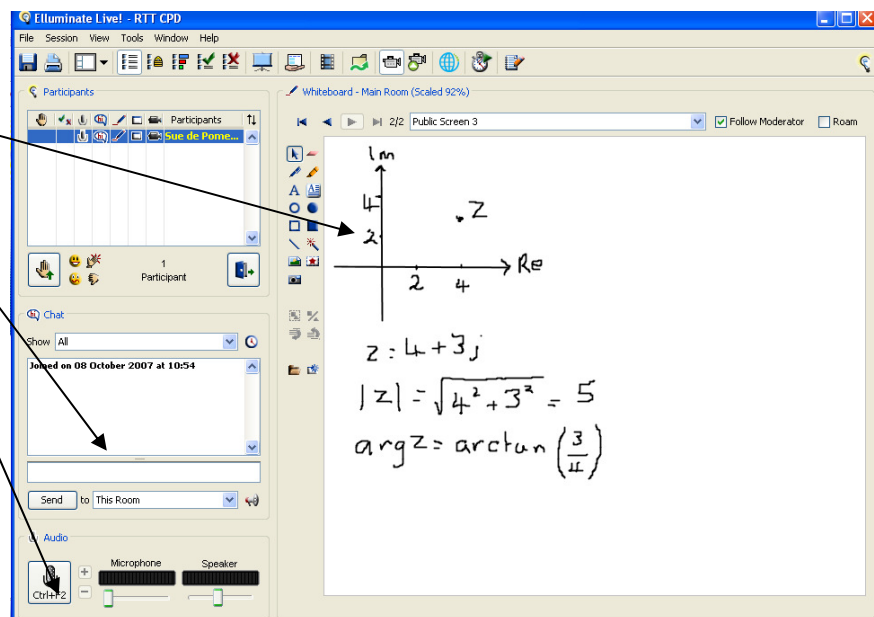
A modern approach to professional development; rather than attending a one or two day course, delegates meet weekly for live, interactive online sessions with a tutor and a small group of teachers.

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



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 2012 – Statistics 2 – Course fee: £175

Applications preferably before Friday 27th January 2012

Course Structure: The four exam specifications cover several different topics. For this course all topics are covered but participants are welcome to attend all sessions if they wish, but may choose to attend only the sessions that are relevant to their school's exam specification.

DATE	TIME	TOPIC	Exam specification			
			AQA	Edexcel	OCR	MEI
Mon 6 th Feb	1630 - 1730	Introduction to the online facility and the Integral web resources (for all exam specifications)				
Mon 27 th Feb	1630 - 1800	Discrete Random Variables (DRV)	S2	(S1)	(S1)	(S1)
		Mean and variance of a simple function of a DRV	S2			
Mon 5 th Mar	1630 - 1800	Continuous Random Variables	S2	S2	S2	(S3)
Mon 12 th Mar	1630 - 1800	Binomial distribution	(S1)	S2	(S1)	(S1)
		Hypothesis testing for the binomial distribution parameter p	(S3)	S2	S2	(S1)
Mon 19 th Mar	1630 - 1730	The Poisson distribution	S2	S2	S2	S2
		Poisson approximation to the Binomial distribution	(S3)	S2	S2	S2
Mon 26 th Mar	1630 - 1800	The Normal distribution	(S1)	(S1)	S2	S2
		Normal approximation to Binomial and Poisson distributions	S2	S2	S2	S2
Mon 23 rd Apr	1630 - 1800	Tests for the mean of a normal distribution with known variance. Using a z -statistic.	S2	(S3)	S2	S2
		Tests for the mean of a normal distribution with unknown variance. Using a t -statistic	S2			
		Type I and Type II Errors	S2		S2	
		Confidence intervals for the mean of a normal distribution with known variance. Using a z -statistic	(S1)			
		Confidence intervals for the mean of a normal distribution with unknown variance. Using a t -statistic	S2			
Mon 30 th Apr	1630 - 1730	Hypothesis testing : Chi-squared – contingency tables	S2	(S3)	(S3)	S2
Mon 14 th May	1630 - 1800	Bivariate data	(S1)	(S1)	(S1)	S2
		Hypothesis testing for the population correlation coefficients	(S3)	(S3)		S2
Mon 21 st May	1630 - 1800	<i>Optional Resource sharing session: This is an opportunity to share resources and ideas in preparation for teaching topics from the course.</i>				

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

All participants will receive

- Access to online resources for the module being studied covering all exam specifications
- Course 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 other course delegates and LOPD tutors.
- Email support from a course tutor and a certificate of attendance

For further information and an application form visit: http://www.furthermaths.org.uk/teacher_area/rpd.php

Enquiries: sharontripconey@furthermaths.org.uk