

**FURTHER
MATHEMATICS
SUPPORT
PROGRAMME**



**CONTINUING
PROFESSIONAL
DEVELOPMENT**

Live Online Professional Development in Mathematics

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





I really appreciated that the tutors would take the time to answer questions, and offered suggestions on how I may want to teach topics.

- 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 and access to comprehensive online teaching and learning resources

How do the online courses work?

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

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

The screenshot shows a web-based whiteboard interface with the following content:

- Equation:** $|z - (2 + i)| = 3$
- Step 1:** $z = x + yi$
- Step 2:** $|(x - 2) + (y - 1)i| = 3$
- Step 3:** $(x - 2)^2 + (y - 1)^2 = 3^2$
- Step 4:** (Circle 1) ☺
- Diagram:** A complex plane with a grid. A circle is drawn with center at $(2, 1)$ and radius 3. The point $2 + i$ is marked on the real axis. A vector is drawn from the origin to the point $2 + i$, and its length is labeled as 3.
- Chat Log:**
 - Sally: 2+i is the centre
 - Wah: why not -(2+i)?
 - Wah: I get it - the radius is 3 then



The online nature of the course makes it convenient to complete either at school or at home

What do you need to participate?

Equipment is readily available to purchase from the high street or online from about £40.

- A broadband internet connection
- A headset with a microphone
- A graphics tablet and pen (*hand writing on the shared whiteboard is an integral part of the majority of our courses*)

Examples of our full length online courses for teachers

Approximately ten hours online focusing on improving subject knowledge, covering topics from the AQA, MEI, OCR and Edexcel specifications.

Topics from AS Core Maths

Topics from A2 Core Maths

Further Pure 1

Topics from Further Pure 2, 3 & 4

Mechanics 1

Mechanics 2

Topics from Statistics 1 & 2

Decision 1

Topics from Decision 2

Courses for the September 2017 A level courses
(commencing Summer 2016)

Examples of our short online courses for teachers

Approximately five hours online focusing on enhancing teaching and learning.

Preparing students for STEP, AEA or MAT examinations

Using GeoGebra in the A level classroom

Using GeoGebra in the GCSE classroom

Key Stage 5 Coordinators Development



*Excellent training,
I'm already looking
at the list to sign up
to another course.*

Continuing Professional
Development
Standard

National Centre
for Excellence in the
Teaching of Mathematics

The Further Mathematics Support Programme

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About the FMSP

The Further Mathematics Support Programme (FMSP) is a government-funded initiative, supported by the Department for Education, and managed by Mathematics in Education and Industry, an independent educational charity.

FMSP Area Coordinators, covering the whole of England, work with schools and colleges to support and promote the study of AS/A level Mathematics and Further Mathematics and to arrange Further Mathematics tuition for students when their schools and colleges cannot provide it themselves. The FMSP provides training and support to teachers of AS/A level Mathematics and Further Mathematics.

The number of students taking A level Further Mathematics has more than doubled since the programme was established nationally in 2005.

All English schools and colleges can register free of charge with the FMSP to receive expert advice about supporting students at Key Stage 4, about AS/A level Mathematics and Further Mathematics, and about progression to university STEM courses. Registered schools receive free access to extensive online resources and get regular updates about professional development opportunities for teachers and enhancement and enrichment events for KS3, KS4 and sixth form students provided by the FMSP.

Further details

Please get in touch if you have a requirement for online professional development which is not currently covered. We regularly arrange courses based on teacher request.

We can also offer courses tailored to the needs of groups of teachers or a school's mathematics department.

lopdp@furthermaths.org.uk

For further information, including LOPD course schedules, please check the Teachers' pages on the FMSP website:

www.furthermaths.org.uk

