

FURTHER
MATHEMATICS
SUPPORT
PROGRAMME



PROFESSIONAL
DEVELOPMENT

Professional Development

Support for teachers of A level Further
Mathematics, A level Mathematics and
Key Stage 4 Mathematics





A very good balance between refreshing subject knowledge and ideas for teaching resources and strategies.

FMSP courses are suitable for all specifications

FMSP courses have been updated to match the aims and new content of 2017 specifications for AS and A level Mathematics and Further Mathematics

Do you want to improve your subject knowledge and skills?

The Further Mathematics Support Programme (FMSP) provides:

- support and advice from your local Area Coordinator
- professional development courses for GCSE and A level Mathematics and Further Mathematics
- free access to extensive online resources which cover Further Mathematics and the applied content of A level Mathematics, including teacher notes and a range of interactive materials that can be used to support teaching and learning
- support for teacher networks in every region, giving teachers the opportunity to share good practice, gain informal professional development and keep up-to-date with developments in teaching and learning.



Your FMSP Area Coordinator can provide details of professional development opportunities available through the FMSP and will be happy to discuss any particular professional development you may need. You can find contact details for your Area Coordinator and details of local professional development courses on the regional pages of the FMSP: ***furthermaths.org.uk/regions***



TAM has developed everything about my teaching. The ideas shared, the confidence I have gained and the resources available to me have all made me a more rounded teacher.

Sustained professional development programmes for teachers of A level Mathematics and Further Mathematics

Teaching Advanced Mathematics (TAM) is a 12 month course focusing on developing teaching skills and deepening subject knowledge of teachers new to teaching A level Mathematics. The course includes two formative lesson observations conducted by a subject specialist.

Teaching Mechanics 1 (TM1) is a 5 month course focusing on improving subject knowledge and pedagogy. This course is ideal preparation for teaching the compulsory mechanics elements of new A level Mathematics specifications and has a focus on making the subject engaging and interesting.

Teaching Statistics 1 (TS1) is a 5 month course focusing on improving subject knowledge and pedagogy. This course is ideal preparation for teaching the compulsory statistics elements of new A level Mathematics specifications and has a particular focus on using technology and handling large data sets.

Teaching Further Mathematics (TFM) is a 14 month course focusing on improving subject knowledge, confidence and skills of teachers new to teaching A level Further Mathematics. TFM consists of two units, TFM1 and TFM2, which together cover the pure mathematics content of A level Further Mathematics.

Teaching Mechanics 2 (TM2) is a 5 month course, similar to TM1, but covering the mechanics content in A level Further Mathematics.

Teaching Statistics 2 (TS2) is a 5 month course, similar to TS1, but covering the statistics content in A level Further Mathematics.

All of the above FMSP sustained professional development programmes consist of:

- a blend of face-to-face study days and regular online tutorial sessions
- access to Integral online teaching and learning resources
- ongoing support from course tutors
- the option to gain Masters level accreditation



I have been able to inspire other members within the maths department to deliver more active maths lessons at KS5.

Courses for teachers of GCSE Mathematics

KS4 Extension and Enrichment is a two-day course developing pedagogy and offering resources to extend Higher Tier students at GCSE. Ideas for embedding these approaches into your scheme of work are discussed. Teachers are asked to trial materials and approaches in preparation for the second course day. This course is free to state-funded schools and academies.

Higher Tier GCSE Content Courses are free one-day courses focusing on approaches to teaching some of the new Higher Tier topics.

Problem Solving at GCSE is a one-day course covering strategies for improving students' problem solving skills and offers a chance to try out some problems, discuss them with colleagues and take away a set of resources to use in school.



Supporting higher-level problem solving

The FMSP organises one-day courses for teachers helping students to develop problem solving skills and who are supporting students preparing for STEP, AEA, TMUA and the MAT examinations.

- Supporting students with STEP and AEA Mathematics
- Supporting students preparing for the MAT and TMUA
- Incorporating mathematical problem solving alongside the regular curriculum during Year 12



I was pleasantly surprised at how smoothly the technology worked, making it feel interactive and allowing for questions and contributions from the people on the course. I would strongly recommend this method of staff development to anyone.

Live Online Professional Development

Live Online Professional Development (LOPD) is an innovative approach to professional development in which small groups of teachers meet weekly for live, interactive online sessions with a tutor.

Each course is between four and ten sessions in length, providing sustained professional development over a number of weeks.

The sessions are between 60 and 90 minutes, beginning at either 16:30 or 18:30 so there is no need for cover or travel.



Each courses provides:

- subject content and ideas for teaching
- access to Integral online resources
- playback of each live session
- ongoing email and forum support

A range of courses is offered through the LOPD programme including:

- AS and A level Pure Mathematics, Mechanics and Statistics
- AS and A level Further Mathematics topics
- A level Pure for Absolute Beginners
- Spreadsheets for A level Mathematics
- GeoGebra for GCSE and A level Mathematics
- Problem Solving for A level and GCSE
- Key Stage 5 Coordinator Development

For a full, up to date list of courses offered visit:
furthermaths.org.uk/lopd



I loved the enthusiasm of the tutors throughout – it's so important to show a passion for your subject.



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.

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

FMSP Area Coordinators, covering the whole of England, work with schools and colleges to support and promote the study of AS and 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 and A level Mathematics and Further Mathematics.

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 GCSE, AS/A level Mathematics and Further Mathematics, and about progression to university STEM courses. Registered schools receive free access to extensive online resources. They are sent regular updates about professional development opportunities for teachers and enhancement and enrichment events provided by the FMSP for KS3, KS4 and sixth form students.

Further details

Details of all FMSP professional development courses can be found on our website:

furthermaths.org.uk/cpd



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