

The National Picture

Further increases in the numbers of students taking A level Mathematics and Further Mathematics are a real cause for celebration. UK figures for summer 2013 show that:

- AS level Further Mathematics numbers are up from 20954 to 22 601, an increase of 7.9%.
- A level Further Mathematics numbers are up from 13223 to 13 821, an increase of 4.5%.
- AS level Mathematics numbers are up from 148550 to 150 787, an increase of 1.5%.
- A level Mathematics numbers are up from 85714 to 88 060, an increase of 2.7%.

Since 2003 A level Further Mathematics numbers have increased by 160% (from 5 315) and AS Further Mathematics numbers have increased by 570% (from 3 371). However, there is still work to be done. Over 30% of state-funded schools/colleges offering A level Mathematics still do not have any students studying Further Mathematics. A major focus of FMSP work in 2013-14 will be to work with those schools/colleges who are still not offering their students the chance to study Further Mathematics. This will involve providing advice & guidance, CPD, enrichment, maths promotion at KS4 and KS5, as well as tuition in Further Mathematics when required.

The FMSP will be offering various types of Further Mathematics tuition again this year. In addition to face-to-face tuition and live online tuition the FMSP is extending its series of Live Interactive Lectures for FM, see below.

Professional Development for teachers

The FMSP offers a range of professional development for mathematics teachers including:

- **Live Online Professional Development Courses (LOPD)** aim to help teachers improve their mathematics subject knowledge. These online courses are typically offered twice a year; scheduled in Autumn (Oct – Feb) and Spring (Feb – June). They offer between 5 and 10 hours contact time with an experienced tutor and are delivered to small groups of teachers allowing opportunities for interaction and discussion. Course sessions are scheduled after the school day and are recorded to enable participating teachers to revisit the content at a later date.

For further details and booking information for our **LOPD** courses see:

www.furthermaths.org.uk/teacher_area/rpd.php

- **Teaching Further Mathematics (TFM)** is an extended course starting in July and running for 14 months. Applications for the next cohort open in February 2014. TFM has the option of Masters accreditation.
- **Teaching Advanced Mathematics (TAM)** is a year-long course, with the option of Masters accreditation, for teachers wanting to develop their teaching skills at A level. Applications for TAM open in spring 2014.

Your local FMSP Area Coordinator will be arranging more professional development events in your area this year. For information about professional development please check the website www.furthermaths.org.uk/teacher_area. If you have any queries regarding the above please contact cpd@furthermaths.org.uk.

Live Interactive Lectures for Further Mathematics students

Our online lectures for Further Mathematics students will commence in October. These are designed to supplement students' independent study and/or teaching, including:

- Up to thirty hours of live online support which includes dedicated lectures and revision time.
- Access to the [Integral](#) extensive and acclaimed online resources. These have specific sections tailored to support self-study and include additional notes, additional exercises, interactive resources, multiple choice tests, exam-style questions and worked solutions.
- A moderated forum specifically for course participants.

Modules available for 2013-14 include: FP1, FP2, M1, M2, D1, D2 and S2 in Edexcel/MEI/AQA and OCR
: FP3 and M3 for Edexcel specification only

Further information and application details can be found at: <http://www.furthermaths.org.uk/lilfm.php>

East Midlands Events and Updates

Welcome to the new term and a new academic year. First of all we would like to say a big thank you to all schools who participated in events last year and well done to all students who took GCSE or A-level Mathematics examinations this summer.

As always, at the Further Maths Support Programme we are dedicated to providing every student the opportunity to study Further Mathematics A-level, as well as encouraging students to engage with mathematics in new and exciting ways via our enrichment activities.

This year we have planned a whole range of events for students and teachers and we do hope you continue your engagement with us.

Please book your places for these events as soon as possible as they are likely to be very popular.

Details of booking can be found on our website:

www.furthermaths.org.uk/

Or please email the relevant Area Coordinator for that region.

For further information, please contact:

Ria Symonds, Nottinghamshire/Derbyshire

Nicki Timson, Leicestershire/Lincolnshire/Rutland

Stephanie Thomas, Northamptonshire

Email: riasymonds@furthermaths.org.uk

Email: nickitimson@furthermaths.org.uk

Email: stephaniethomas@furthermaths.org.uk

Step/AEA events

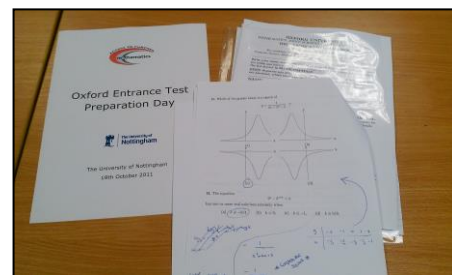
This term we are introducing whole range of events specifically aimed at preparation for the STEP/AEA exams required to enter some University mathematics courses.

Date	Description	Venue	Time
Tuesday 1 st October	STEP/AEA Open Evening	Nottingham University	6 – 7:30pm
Wednesday 27 th November	Problem Solving for 6th Formers (and teachers) One day event for Year 13 students to enhance their problem solving skills. This will be particularly useful for students thinking of taking the STEP/AEA exam. Teachers are also invited to take part in a CPD equivalent event on the same day.	Nottingham University	9:30am-2:30pm
Saturdays 17 th January to 9 th May	STEP/AEA Prep sessions Ten 2-hour Saturday morning workshops for students who will be taking the STEP/AEA exam in the Summer	University of Northampton	10am – 12pm

Oxford Entrance Preparation Course

This course will be an intensive one-day preparation event for the Oxford Maths Entrance Test (Also required for Imperial College) and will be delivered by **David Hulme**, who is an highly experienced teacher of A-level Maths.

The course is intended for students applying for degree courses in **Mathematics (G100)**, **Mathematics & Statistics (GG13)** or **Mathematics & Philosophy (GV15)**



***** Thursday 10th October, University of Nottingham, 10:00 – 3:00pm *****

FMSP/UKMT Senior Team Maths Challenge

A team competition for students in years 11, 12 and 13 testing mathematical, communication and teamwork skills. Each team must consist of four Year 11, 12 or 13 (or equivalent) students with no more than two students from Year 13.

Each heat will last approximately **three hours**. Winners will be invited to the national final on Tuesday 4th February 2014 in London.

Heats in the East Midlands

***** Wednesday 6th November, University of Nottingham, 2:00 – 5:00pm *****

***** Wednesday 6th November, University of Derby, 1:00 – 4:00pm *****

***** Tuesday 12th November, All Saints Catholic School, Sheffield, 2:00 – 5:00pm *****

***** Wednesday 13th November, Loughborough University, 2:30 – 5:30pm *****

***** Wednesday 13th November, University of Northampton, 12:30pm – 4pm *****

***** Friday 22nd November, The Priory Academy, Lincoln, 11:30pm – 3:30pm *****



**** NB **** If you would like your students to attend a **TRAINING EVENT** for any of the STMC heats then you can apply for a group of four students and their teacher to attend this half day workshop on the

**** 16th October at Bosworth College, Leicester ****

KS4 Enrichment events for students

Date	Description	Venue	Time
5 th March 2014 12 th March 2014 19 th March 2014 2 nd April 2014	Year 10 Team Maths Competition	Loughborough Nottingham Northampton REGIONAL FINAL	2:30 – 5pm 2:30 – 5pm 12:30 – 3pm 2:30 – 5pm
July 2014	“Maths Inc.” Engaging and inspirational maths day for year 10 students and their teachers.	University of Northampton	Tba
December 2013	Practical Mathematics Engaging and inspirational STEM day for year 10/11 students and their teachers.	University of Nottingham	Tba

CPD events for teachers

Date	Description	Venue	Time
24 th September 2013	KS4 Extension and Enrichment Day 1 of a two-day course focusing on enrichment and extension materials enabling mathematics teachers to stretch and challenge KS4 students. Day 2 will be in January 2014.	George Spencer Academy, Nottingham	10 – 3:30pm
9 th October 2013	Geogebra Workshop This hands-on course is suitable for all teachers of A level Mathematics. No previous knowledge of Geogebra is required.	University of Nottingham	10 – 3:30pm
4 th June 2014	Decision 1 (all boards) Introduction to teaching D1	Loughborough University	9:30 – 3:30pm
2 nd July 2014	Statistics 1 (all boards) Stats and Probability CPD with some interactive aspects	Loughborough University	9:30 – 3:30pm
24 th October 2013	A window into A-level Maths ½ day event for non-specialist maths teachers	University of Northampton	Tba
January 2014	Topics from FP1/FP2 1 day event for new and experienced A-level maths teachers	University of Northampton	Tba

Maths Teacher Network Meetings

The meetings are planned to be a very informal get together between teachers who are interested in developing their A-level teaching in Mathematics, to discuss innovative and engaging ways to teach particular topics. Each meeting will have a guest speaker to deliver a short CPD element and light refreshments will be provided.

Loughborough University
University of Northampton
University of Northampton
University of Nottingham

Maths HoD Meetings
Maths HoD Meetings
Teacher Network Meetings
Teacher Network Meetings

September/March/July
19th Sept ~ Dec/March/May/June
November/January/March
November/January/March

Maths Revision Events

Date	Description	Venue	Time
October 2013	GCSE A/A* Revision Day	University of Nottingham	Tba
April 2014	GCSE A/A* Revision Day	University of Nottingham	Tba
April 2014	GCSE A/A* Revision Day	University of Northampton	Tba
April/May 2014	A-level Revision Days (specific module days TBA)	All regions	Tba

All our events are advertised on the FMSP website www.furthermaths.org.uk/. If the event is an enrichment or CPD event specific to the East Midlands area then details can usually be found in the **Regions** tab. Here, alongside each listing, you will find a **flyer** with further details and how to apply or book a place. For all other enquiries please contact your local Area Coordinator who will be happy to help.

Your East Midlands Team



Nicki Timson

Leicestershire, Lincolnshire and Rutland.
Email: nickitimson@furthermaths.org.uk
 [based at Loughborough University]

Stephanie Thomas

Northamptonshire
Email: stephaniethomas@furthermaths.org.uk
 [based at the University of Northampton]

Ria Symonds

Nottinghamshire and Derbyshire.
Email: riasymonds@furthermaths.org.uk
 [based at the University of Nottingham]

Periodically your Area Coordinator will e-mail news on local events to all schools in his or her area with news and further details of events. If your school has not received emails of this kind, please contact your Area Coordinator to resolve this and add your school to our mailing list.