

The National Picture

Throughout the current academic year the FMSP have been active in many areas of work – from tuition, to CPD, to enrichment, to engaging with universities. All this work seeks to enthuse about mathematics and to help support and suggest study of further mathematics.

This newsletter details some national developments before going on to describe activities and opportunities in your region.

UKMT/FMSP Senior Team Mathematics Challenge Final:

On February 5th at the Camden Centre, London, 62 teams competed in the 2012/13 STMC Final. The teams had qualified from 56 regional heats involving over 1100 schools and colleges.

The overall champions were the team from Westminster School (pictured below), who have won the competition on 2 previous occasions. City of London School, Eton College and Magdalen College School, Oxford were in joint second place. The poster competition, on the theme of *Sets and Logic*, was won by The Grammar School at Leeds (pictured below). This year the competition was sponsored by Rolls-Royce plc. Sarah Malik from Rolls-Royce attended the final and presented the prizes.



Westminster School



The Grammar School at Leeds

More FREE resources now available – AQA Level 2 Certificate in Further Mathematics

The FMSP provides free teacher access to comprehensive online resources for AS/A level Further Mathematics via the Integral virtual learning environment – <http://integralmaths.org>. Access also includes materials for OCR Additional Mathematics, STEP, AEA, IMPS (Integrating Mathematical Problem Solving) and AQA Level 2 Certificate in Further Mathematics. We are pleased to announce that, via sponsorship from AQA, subscription to online resources for AQA Level 2 Certificate in Further Mathematics is free for centres, and their students, for the calendar year 2013. Please see the recent news announcement about this: www.furthermaths.org.uk/fm_news.php

Extended professional development courses

The FMSP provides a range of professional development courses, such as for STEP/AEA and for Key Stage 4. It also has an extensive programme of online professional development – for more details see: www.furthermaths.org.uk/teacher_area/cpd.php. There are also extended courses that are now taking applications:

Teaching Further Mathematics enables participants to study the content of Further Mathematics from a teaching and learning perspective. The course starts in July and applications are now being taken. For more information and an application form please see: www.furthermaths.org.uk/teacher_area/tfm.php

Teaching Advanced Mathematics is designed to give teachers the skills and confidence to teach A level Mathematics effectively, focussing on subject knowledge and pedagogy. The Masters-credited course fees are £600 but **schools and colleges of participants are entitled to receive £1200 in March 2014**, in recognition of the support they provide to enable one of their teachers to take the course. For more information please see: www.mei.org.uk/tam

East Midlands Events and Updates

Welcome to your new Area Coordinator for Northampton



We are pleased to welcome Stephanie Thomas onto the East Midlands team and she will be looking after the Northampton area. If you have any questions regarding tuition or events in this area then please contact Stephanie at stephaniethomas@furthermaths.org.uk.

KS4 Enrichment Events

The main aim of our enrichment events is to motivate young people to take an interest in Mathematics and to encourage them to study the subject at A level and beyond. We have a special interest in supporting the STEM subjects. If you have any ideas for enrichment events and would like some support please contact us – we will help if we can.



Events coming up next term can be found below:

Date	Event	Venue
June 2013	Rollercoaster – Enrichment for year 10/11 students	Loughborough University
July 2013	Theme Park Mathematics (2-day event) Enrichment event for Year 10/11 students looking at the application of mathematics to Alton Towers theme park rides. To include a trip to Alton Towers Contact riasymonds@furthermaths.org.uk	University of Nottingham and Alton Towers

Year 10 Maths Challenges



Well done to all schools who have taken part in the East Midlands heats so far.

The final will be held at Loughborough University on the **17th April 2013**. We look forward to crowning the first Champion Team at this new event for 2012/13.

Revision Events

Following on from our successful revision events in the Winter, the following sessions have been organised so far in readiness for the Summer 2013:

The sessions above are **free to students taught by the FMSP**. Otherwise a charge of £10 per student is made. Students are provided with revision notes and the sessions centre upon dealing with past paper questions.

Date	Module	Venue	Time
4th April	D1	University of Loughborough	9.30-12.30
5th April	C1	University of Loughborough	9.30-12.30
	M1	University of Loughborough	9.30-12.30
6th April	C2	University of Loughborough	9.30-12.30
13th April	FP1	University of Loughborough	9.30-12.30
20th April	S1	University of Loughborough	9.30-12.30
24th April	C2	Space Centre, Leicester	9.30-12.30
	S1	Space Centre, Leicester	13.00-16.00
27th April	C2	University of Loughborough	9.30-12.30
May Half Term			
29th May	C3	University of Loughborough	9.30-12.30
29th May	C4	University of Loughborough	13.00-16.00
30th May	FP1	University of Loughborough	9.30-12.30
30th May	FP2	University of Loughborough	13.00-16.00

ALL BOARDS ARE COVERED – contact nickitimson@furthermaths.org.uk

Date	Module	Venue	Time
24 April 2013	FP1	University of Northampton	13.00 – 15.30
4 May 2013	C2	University of Northampton	9.30 – 12.30
8 May 2013	NM	University of Northampton	13.00 – 15.30
5 June 2013	C4	University of Northampton	13.00 – 15.30

Contact Stephaniethomas@furthermaths.org.uk

GCSE A/A* revision days

The University of Nottingham will be hosting an A/A* revision event for current Year 11 students in April 2013. There are three opportunities to attend this event:

17th, 18th or 19th April 9:30 to 3:30pm

For more information contact Ria Symonds at riasymonds@furthermaths.org.uk

CPD for teachers

This term sees many exciting things happening in the region, which you should consider getting involved in. We are pleased to invite teachers to attend a series of CPD events:

- 16th May 2013** **GCSE Problem Solving** with Ben Sparks.
An all-day CPD event at the University of Northampton
- 24th May 2013** **Further Pure 2** CPD event with Phil Chaffe
9.30 – 3.30 at Ecclesbourne School, Derbyshire.
- 14th June 2013** **Introduction to Teaching Further Mathematics**
9:30 – 3:30 University of Nottingham

What has already happened in your region?

This year introduced new events in relation to STEP and AEA support and preparation for students. These events have been very popular for both teachers and students alike. Our series of **STEP Preparation workshops** (for students) continues into May.

In these workshops, students are introduced to the STEP-style examination questions and are advised of how to solve such problems. The course is delivered by Peter Mitchell and, so far, students are feeling more confident about the exam in the summer.

For more information on ways to support your students with STEP preparation please contact your local Area Coordinator.

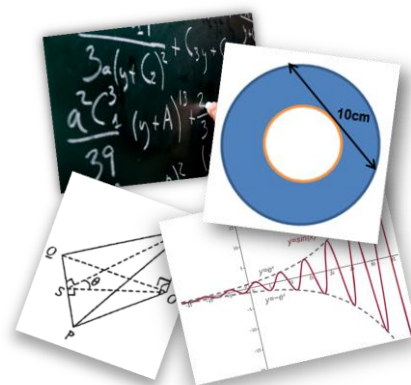
We have also introduced two new CPD events focused on supporting KS4 mathematics. Some teachers have taken part in our 2-day **KS4 Enrichment and Extension CPD** course. At this they were introduced to new materials and discussed approaches to stretching and challenging students at KS4. In between the days the teachers were encouraged to trial the materials and ideas with their students. In addition a **GCSE Problem Solving CPD** day is scheduled for 16th May. This will give teachers some great ideas and resources to use with students to develop their students' problem solving skills. **There is still time to book onto this course so please don't delay!**

Various **enrichment events** took place in the Autumn term including **Maths in Space** at the National Space Centre and **Maths in Sport** at Snibston. More events are due to take place so please **check our regional page** on the FMSP website for updates.

<http://www.furthermaths.org.uk>

If it is difficult to arrange students to be released from school time then we are happy to come and visit your school to give engaging and inspirational talks for your students.

Such talks include: **Solving the Rubik's Cube, What's your Bacon Numbers? Gambling with Maths, the Power of Two... and many more!**



Maths Enrichment and Careers talks

We are very keen to support teachers and schools in delivering Mathematics and Further Mathematics. If you would like to drum up some **enthusiasm** and **love** for the subject amongst your **KS4** and **KS5** students then please contact your Area Coordinators to arrange a **school visit tailored for your personal requirements!**



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