

Spring 2014

North East
Regional

NEWSLETTER

The National Picture

The Department for Education is to provide Mathematics in Education and Industry with substantially enhanced funding for a further three years to continue and extend the work of the Further Mathematics Support Programme, working with the National Centre for Excellence in Teaching Mathematics and the Institute of Education.

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The FMSP will expand its work to improve access to Further Mathematics tuition, and to increase the numbers of students in England studying advanced mathematics post-16. The FMSP will continue to have a strong emphasis on teachers' professional development, to help meet the increasing demand from students to study Mathematics beyond GCSE level.

UKMT/FMSP Senior Team Mathematics Challenge Final

On February 4th at the Camden Centre, London, 59 teams competed in the 2013/14 STMC Final. The teams were all winners from the 55 regional heats involving 1146 schools and colleges.

The overall champions were the team from Hampton School. Alton College were in second place with Rainham Mark Grammar School taking third. The poster competition, on the theme of *Ruled Surfaces*, was won by The Grammar School at Leeds. The competition was again sponsored by Rolls-Royce plc. Dr Peter Neumann presented the prizes and congratulated all the participants on their achievements.

FMSP Wales

FMSP Wales has secured continued funding for the project from the Welsh Government for 2014-15 and 2015-16. For further information see the FMSP news announcement at:

www.furthermaths.org.uk

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 on the FMSP CPD provision, please see:

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

There are also extended courses that are 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, focusing on subject knowledge and pedagogy. The Masters-accredited course fees are £600 but *schools and colleges of participants are entitled to receive £1200 in March 2015*, 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

Regional Events and Updates

Professional Development

Future Events:

Friday 28th February: STEP/AEA CPD Day at Teesside University, Darlington Campus:

A one day course for teachers who wish to support their students with STEP and AEA examinations.

Thursday 20th March: 11-16 Network Meeting: 1.00 to 4.00 at Teesside University, Middlesbrough:

- Using graphical calculators in the KS4 classroom;
- A practical approach to GCSE revision.

Tuesday 1st April and Wednesday 25th June: 16-19 Network Meeting: 1.00 to 4.00 at Newcastle University.

Monday 7th July: Core 3 CPD Day at Teesside University, Darlington Campus:

For teachers new to Core 3 or those wishing to update their subject knowledge.

Monday 14th July: FP1 CPD Day at Emmanuel College, Gateshead.

For teachers new to FP1. Aims to cover all the common topics across all specifications.

Tuesday 15th July: 11-16 Network Meeting: 1.00 to 4.00: Teesside University, Darlington Campus

Using Geogebra for GCSE (Bring laptops or tablets)

Past Events:

Since September we have arranged CPD events covering GCSE Extension and Enrichment, Problem Solving for Yr12/13, Decision1/2, AS Core 2, Mechanics 1 and AQA Level 2 Further Maths.

The post-16 and 11-16 Network Meetings continue to be well supported. These are free and anyone is welcome to attend.

Below are some photos from the Introduction to Mechanics CPD Day at Middlesbrough College.



We have also presented talks and enrichment activities to PGCE students at Newcastle and Sunderland Universities.



Enrichment for Students

Events

Future Events:

Year 10 Team Challenges:

A free competition for teams of 4 students with the winners and best runners up going forward to the final in York.

Wednesday 26th February at Longbenton Community College.

Wednesday 2nd April at Teesside University in Middlesbrough.

Final: Wednesday 30th April at York Railway Museum.

Friday 9th May: Core1/2 Revision Day: 9.45 to 4.15 (Lunch included). Topics from both Core1 and Core 2 with hints on maximising your marks.

Thursday 12th June: Mathspllosion II at the Centre for Life, Newcastle. Following last year's event, a day of Maths fun for Yr10 including the planetarium.

Wednesday 2nd July: Aeronautical Engineering Day at Teesside University for Yr12 students.

STEP Mathematics Sessions for Yr12/13:

These take place every Wednesday at both Newcastle and Teesside Universities for students preparing for STEP or AEA examinations. Below are some of the students attending the Newcastle sessions this term.

Thanks to the FMSP Associates, Michael Gibson and Paul Wilson, for presenting these sessions.

Past Events:

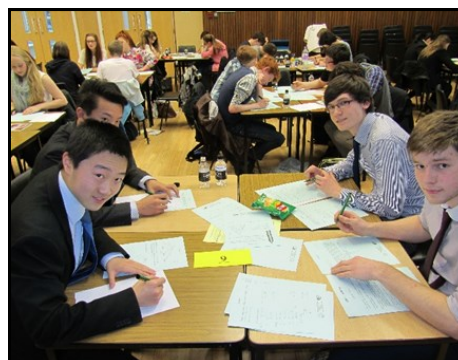
Maths and Music Lecture:

In December Tom Button presented two lectures for Yr10 students on Maths and Music at Teesside University. Twenty four schools with 284 students attended either the morning or afternoon session. Watch out for a similar event in December.

Senior Team Challenge:

The two local heats took place at Northumbria and Teesside Universities in November with Queen Elizabeth Sixth Form College Darlington and RGS Newcastle, pictured below, going forward to the final in London.

Schools who have not taken part in the SMTC before can request some training to familiarise the team with the style of the competition. Last term 3 schools took up this offer.



Year 10 Access to Further Maths Conference at Newcastle University

Over 100 students attended this conference in December with an initial talk on "Google to Games" by Richard Lissaman, followed by a series of workshops.



Dedicated School Support

We are currently working with four schools to help with their new post -16 provision. If you would like help and support with GCSE higher or A Level courses, please get in touch. This includes talks/enrichment in your school/college with groups of students as well as working with teachers.

If you are interested in any of the support mentioned please contact one of the Region's Area Coordinators - details can be seen below.



Photo: students from Heworth Grange School in Gateshead, doing some problem solving activities in preparation for the STMC .



North East Contacts:

For Darlington, Durham, Gateshead, Hartlepool, Middlesbrough, Newcastle upon Tyne, North Tyneside, Northumberland, Redcar and Cleveland, South Tyneside, Stockton-on-Tees or Sunderland contact:

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North East Events pages:

For teachers:

www.furthermaths.org.uk/?section=regions&page=NE_CPD

For students:

www.furthermaths.org.uk/?section=regions&page=NE_enrichment

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