



Covering Dorset, Devon, Somerset and Wiltshire

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It seems a long time ago now but since our last newsletter we held the Jurassic Maths Hub Summer Conference at Taunton Racecourse.

Alex Bellos, journalist and author, provided great inspiration and humour at the start of the day, particularly with regards to his quest to find out about favourite numbers. More can be found out at <http://bit.ly/OEQy3c>.

Debbie Morgan, NCETM Primary Director, provided clarity about the Teaching for Mastery approach and how the NCETM website has supporting resources for teachers, such as the new videos <http://bit.ly/2dlzKPU>.

Jane Jones, Ofsted HMI, closed the day with very clear guidance about what constitutes good mathematics teaching and that there is no perfect style being looked for by Ofsted, with particular reference to the Myth Busting document <http://bit.ly/1JO8S5W>.

Key to the day were the sessions run by each of the Work Group Leaders. These **workshops** ranged from Shanghai Primary, to the Core Maths course, via Problem Solving for Key Stage 2-3. A huge thank you to all those who ran sessions and the various

presentations and handouts can be found in the News section of our homepage at <http://bit.ly/2cqpXrD>.

As mentioned previously the funding for the Maths Hubs this year has increased again so we have made some changes to the structural organisation of the Jurassic Maths Hub.

Firstly we have a new Administrator, **Caroline Lambert**, who has replaced Gilly Warr who retired in the summer. Caroline can be contacted on jurassicmaths@woodroffe.dorset.sch.uk.

We have set up a **Primary Coordination Group** that will manage the multiple work groups we have principally focused on Teaching for Mastery. **Ruth Trundle** and **Heidi Whitney** are jointly leading this group.

We also have a similar **Level 3 Coordination Group** which is being led by **Tom Rainbow** and is managing the various post-16 Work Groups, in conjunction with **Jo Sibley** and **Margaret Harding** from FMSP.

There are currently 22 Work Groups this year which cover five areas: **Mastery, Reasoning, Level 3, Leadership and New Curricula**. All of the Work Groups will soon

be visible on our website so please look there.

Some of the groups are part of national projects, so there are recruitment processes for these which are detailed on the NCETM website and in the NCETM magazines, plus we circulate them via email and Twitter when they are announced.

An example is that we are currently seeking schools to join the Key Stage 3 Reasoning Project (details are contained further in this newsletter). To find out more about any groups please contact Caroline.

Our conference in the Summer was called '**Confident Mathematicians**' and I hope that through the Work Groups this year we will develop more teachers who are confident about what they are teaching such that pupils are more confident in their ability to be mathematically fluent, to reason and to problem solve.



Neil Vincent,
Head of Maths,
Jurassic Maths Hub Lead.

Maths-No Problem!

At the end of the Summer term, Wimborne Teaching School hosted two days 'Maths- No Problem!' training with Simon Norton, an MNP lead trainer for colleagues across Dorset. 'Maths No Problem' was first to publish a primary textbook which is fully aligned with the 2014 National Curriculum and has been chosen by the DfE to provide professional development and resources to the Maths Hubs as part of the NCETM's High Quality Textbook Programme.

The Singapore method of teaching mathematics develops pupils' mathematical ability and confidence without having to resort to memorising procedures - making mathematics more engaging and interesting.

The inspiring training required teachers to focus upon the 'why' not just the 'how' in mathematics. The approach expects children to think independently, using number sense skills and using what they know to tackle problems, step by step. A key aspect is understanding the value of the Concrete, Pictorial and Abstract (CPA) approach and demonstrating how manipulative resources can support deeper understanding.

The Singapore approach is based on meaningful learning opportunities so that children understand



the links and relationships within mathematical concepts. Alongside this is the importance of risk taking, and teacher modelling taking risks and making mistakes so that pupils value the challenge in mathematics.

All teachers who attended the training will have begun to use the 'Maths No Problem' textbooks from the Autumn term. This highly successful training has allowed teachers to develop the Singapore approach within their schools and use the textbooks from Years 1 to Year 6.

Due to the large amount of interest the training is being repeated on 11th and 12th October 2016. There is also an additional day, 9th November 2016, to support colleagues using the Singapore approach and 'Maths No Problem' textbooks with differentiation.

To find out further information or book your place please contact Rommalee Young at: mrs.young@stjohnswimborne.net or online at www.wimborneteachingschool.co.uk



Save The Date!

Edexcel Meetings

The meetings run from 3.30 - 5pm at Twynham School. Anyone who would like to attend should email mathsevents@pearson.com. Please contact Claire Hill directly at clare.hill@twynhamschool.com for further information.

The meeting dates have been set for, Tuesday 22nd Nov, Wed 8th March and Tuesday 27th June. However, dates have been known to change over the course of the year so please check online via <http://bit.ly/2cYhAPU>.



Maths Problem Solving with Johnny Ball

On Friday 21st October 2016 Plymouth High School will be hosting the annual Plymouth Maths Conference focusing on problem solving. The day will run from 8.30am until 1pm. This will feature a keynote speech and workshop from Johnny Ball, a workshop from Ted Graham from Plymouth University and a final speech on the mathematics of chocolate fountains.

Places will be limited and will cost £75 per teacher. For more information please email Donna Roughton at Plymouth High School for Girls (droughton@phsg.org)

Mathematics in Education and Industry

Teacher Professional Development: www.furthermaths.org.uk/SW_CPD

Student Enrichment: www.furthermaths.org.uk/SW_enrichment

Jo Sibley

Professional Development Coordinator

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Dorset Subject Leaders Meetings 2016/2017

Tuesday 15th November - 9am until 4pm

Wednesday 22nd March - TBC

Friday 16th June - TBC

Venue: Kingston Maurward, Dorchester, DT2 8PY



Devon Subject Leaders Meetings 2016/2017

Wednesday 16th November - TBC

Thursday 23rd March - TBC

Tuesday 13th June - TBC

Venue: TBC



Royal Institution's Maths Grant Scheme: Now open!

The Royal Institution (Ri) is offering UK state schools grants of up to £500 to host a maths 'enrichment and enhancement' activity for their teachers and students.

Funded by the Clothworkers' Foundation, the scheme is designed to integrate maths activities (such as shows, talks and workshops) into school practice and to support teachers' professional development.

Successful applicants will receive £500 towards any maths activity listed on the STEM Directories as long as it is held between January and July 2017. Eligible state-funded schools, academies and FE colleges must complete the online application form by the closing date: 30 October 2016. For more information and to apply, visit the STEM Directories website or email stemdirectories@ri.ac.uk.



Secondary Teaching for Mastery Specialist Programme

The Secondary Teaching for Mastery National Collaborative Project will have two aspects to it in 2016-17. Every Maths Hub will nominate between 1 and 4 teachers to participate in the central Secondary Mastery Specialist development programme. Then, as well as developing Teaching for Mastery in their own school, the teachers will also work with teachers from other schools later in the year. This week, recruitment to this programme will formally begin. The common information and application document can be found online www.ncetm.org.uk. Schools are asked to send applications direct to Maths Hubs (jurassicmaths@woodroffe.dorset.sch.uk), but copying in the NCETM by 14 October (mathshubs@ncetm.org.uk).

The NCETM Professional Development Lead Development and Accreditation Programme (Advanced Mathematics): new courses for 2016 - 2017

The NCETM and the Further Mathematics Support Programme (FMSP) have announced dates for five new courses, during the school year 2016-2017, under the Advanced Mathematics Professional Development Lead Development and Accreditation Programme. The programme supports teachers and others who design and lead advanced mathematics professional development opportunities for groups.

The courses (one day in October 2016 and one day in January 2017, with a gap task in between) will run in the following venues:

Darlington
Manchester
Telford
Southampton
Woking.

The programme provides the opportunity to: debate and explore priority areas in advanced mathematics learning and teaching; debate and explore what makes good mathematics-specific CPD; share good practice in mathematics CPD with fellow colleagues and become part of a professional community of mathematics PD leads (an online community will be set up to facilitate networking); plan, undertake and evaluate professional development work with a group of teachers as part of an interim task.

It will also support those implementing the new advanced mathematics qualifications in schools and colleges from September 2017, incorporating any changes into the programme that might result from future developments.

Further information and details of how to apply can be found at www.ncetm.org.uk.

Mathematical reasoning at Key Stage 3: opportunity for secondary schools

The Maths Hubs programme is offering an opportunity for secondary schools to participate in

a free series of workshops to help maths departments improve mathematical reasoning at Key Stage 3: a key element of maths learning, and crucial for success at GCSE.

In each of the 35 Maths Hubs across England, there are places for between five and eight secondary schools to take part in a programme of professional development during this school year (2016-2017). Two teachers from each school will attend four workshops throughout the year, and lead gap tasks in their school departments in between. In each Maths Hub a university researcher with expertise in mathematics education will contribute to the workshops.

The intended benefits for participant schools include:

- Deepening of teachers' understanding of the subject knowledge and pedagogy linked to mathematical reasoning.
- Helping teachers plan more effectively to address the reasoning component within all lessons.
- Developing PD leadership skills among participant teachers.
- Helping departments identify resources and approaches that can be built into schemes of work.
- Improving pupils' confidence, fluency and logical precision when they engage in mathematical reasoning.

This is the second year this project has run. Reports by teachers from the 180 participant schools last year praised the way the professional development was structured, and said the gap tasks had helped them and their colleagues generate opportunities for pupils to deepen their mathematical understanding and reasoning skills. Comments from teachers included:

'Excellent new ideas and resources and it has enriched and shifted our departmental practice.'

'My own personal development has progressed significantly, thank you.'

Apply to jurassicmaths@woodroffe.dorset.sch.uk, further details can be found at www.ncetm.org.uk. Forms should be returned to the Maths Hub by 14 October, please copy in the NCETM (mathshubs@ncetm.org.uk).

CPD Opportunities:

Autumn Term 2016 Conference and new Moderation Package to support Subject Leaders

<http://www.babcock-education.co.uk/ldp/courses/bookings/and Industry>

**Course available include:
Subject Leader Briefings
Conference**

**Supporting Teacher Assessment
Teaching and assessing Maths through Rich Learning Experiences
Making Sense of Mastery at KS1 and KS2
Developing Early Number Sense
CPD opportunities related to intervention in maths
Maths training for Teaching Assistants**



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