

Welcome to the second edition of the...

Boolean Maths Hub Bulletin

Shanghai Teacher visit



For four weeks in March, the phrase 'Teaching maths for mastery' was trending throughout Bristol and surrounding areas.

Shanghai teachers Sherry and Jean taught Year 2/3 students at Fishponds CE Academy and Year 4/5 at Begbrook Primary Academy, demonstrating elements of the principles found in teaching for mastery.

During the last week of the visit over 130 local teachers and education professionals spent a day observing lessons, taking part in teacher research groups and evaluating components of mastery in mathematics teaching and learning, which could be included/adapted within their own practice and systems.

A twilight event at the University of Bristol, enabling practitioners unable to visit Sherry and Jean in situ, provided a summary and brief initial evaluation of the impact that the visit had made in addition of the chance to hear from both of the Shanghai teachers before their departure.



Post ITT Subject Knowledge Enhancement Courses

Due to popular demand, a second cohort of SKE+ is due to start this term with a taster session/launch event.

This **FREE** course is a combination of half-day and twilight sessions and will require an agreement of attendance from your establishment.

"A timely course which was well led and has provided the impetus to develop my teaching practice." - Cohort 1 Participant

If you or someone you know is suitable and interested in taking part please contact the Boolean Maths Hub Administrator for more information and/or reserve a space on this cohort.

Summer School



Monday 24th & Tuesday 25th August 2015
@ St Brendan's Sixth Form College, Brislington, Bristol

Sixty current year 11 students who have applied to study A' Level Mathematics in Sept 2015 will be given the opportunity to work with teachers of Mathematics and other individuals who have an interest in Mathematics. There will be workshops and practice sessions to help students regain their confidence in those tricky topic areas as well as opportunities to work on pre-course materials with experts.

Students will also get the chance to talk with second year A' Level students and discuss what it's really like to study Maths in sixth form.



If you have current year 11 students that you feel would really benefit from this, please contact Rhian Skinner, Boolean Maths Hub Administrator, rhian.skinner@clf.cabot.ac.uk, for more details.

NCP5 -Primary Maths Mastery Specialists

Details have been announced of a new programme to train 140 primary teachers to become specialists in mastery approaches to teaching maths.

The programme, run by the NCETM in conjunction with Maths Hubs, significantly builds on the work already underway to spread and embed teaching for mastery approaches in maths lessons in English primary schools.

Once fully trained, each one of these new specialist teachers will lead the professional development of further groups of teachers in schools within their Maths Hub area. Over time, this will spread the understanding of, and expertise in, teaching maths for mastery widely across the primary school system. Four participant teachers will be recruited in each Maths Hub area, so ensuring an even spread of new teaching and leadership capacity across the country.

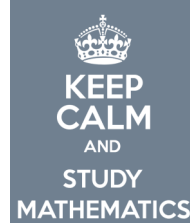
The programme is aimed at existing teachers who have already demonstrated a passion and talent for teaching mathematics, and have the potential to both develop their own teaching skills in line with mastery approaches and pass those on to others. Participation in the programme will require a substantial time commitment: approximately 12 days release from existing school responsibilities in the first year, and 30 days in the second year.

Applications should be emailed to mathshubs@ncetm.org.uk by 5 pm on 4 June 2015.

The Math Hubs Programme National Collaborative Project Workgroups for Year 2:

- NCP1a – Sustaining Primary China-England Work Group & increasing its reach
- NCP1b – Establishing the Secondary China-England Work Group
- NCP2 – Extending the current Y1 schools into Y2/Establishing two new Y1 schools for the Singapore Textbook & CPD Work Group
- NCP3 – Embedding the work of the Post-16 participation Work Group & extending its reach
- NCP4 (new project) – Mathematical Reasoning at Secondary
- NCP5 (new project) – Primary Mathematics Teaching for Mastery Specialist Programme

How can you get involved? Let us know.



Primary ITT SKE course

Aims to develop:

- Deeper subject knowledge in key areas of mathematics.
- Identify and teach for misconceptions
- Design, present and reflect on pupil-centred learning
- Impact evaluation



"In a nutshell this course has really been good in helping me understand my development and teaching of Maths. This in turn as benefited my pupils immensely."

Liz Jefferies, Victoria Park Primary School

If you would be interested in joining the next cohort which will be starting in September 2015, please contact Rhian Skinner who will add your name to the waiting list.

Why are we called the Boolean Maths Hub?

Mary Everest Boole was born in Wickwar, South Gloucestershire in 1832. She was a self-taught mathematician and an author of works including 'Philosophy and Fun of Algebra'. Her progressive ideas on education included using curved stitching to teach the concept of obtuse angles. Mary considered herself a mathematical psychologist, determined to understand how people, and especially children, learned mathematics and science, using the reasoning parts of their minds, their physical bodies, and their unconscious processes."



Meet the Boolean Maths Hub team

Lisa Pollard: Maths Hub Lead (Cabot Learning Federation)



Lisa Pollard became the Senior Leader of Mathematics across the Cabot Learning Federation (CLF) after successfully leading a Mathematics and Computing faculty for four years. Lisa's value base revolves around the belief that everyone and anyone can be a mathematician. Lisa has worked with and supported schools and academies across the South West in Mathematics with a variety of themes including: embedding problem solving, mathematical reasoning, raising attainment at GCSE and Post 16 and systems change. Lisa leads the highly effective CPD for the Maths team across the academies in CLF, is a Core Maths Lead and was selected to visit Shanghai as an SLE in January 2014.

Clare Christie: Primary Maths Hub Lead (Ashley Down Primary School)

Clare has worked with schools across Bristol over the last five years to support them in raising attainment in and enjoyment of maths in a multitude of ways including one-to-one mentoring of subject leads, leading INSET, co-planning with teachers and leading courses. Clare's work focuses on developing pedagogical subject knowledge in school, and it is her belief that it is only by talking about the maths itself, that outcomes will really improve. Clare is also a member of the Outer Circle of ACME (the Advisory Committee on Maths Education – an independent committee that utilises its expertise to influence mathematics education policy).



Rhian Skinner: Maths Hub Administrator



Rhian's role within the Maths Hub pulls together her previous administration background with the classroom experience that she gained as a secondary cover supervisor for four years at an academy in South Gloucestershire. Rhian has a genuine interest in the relationship between the mathematics that students learn and their future love of the subject.

Action Research Video Club

The Boolean Hub is supporting the University of Bristol's first "Action research video club", which began in May 2015. A group of seven mathematics teachers are meeting every fortnight over a three month period, to share video clips of their lessons and work collaboratively on supporting each others' professional development, facilitated by Dr. Alf Coles, from the University. We have had two meetings and teachers have reported already on being provoked into new practices in their classroom.

A second round of the club will start in the Autumn, open to any primary or secondary mathematics teacher.

If you would like to know more, please contact Alf at: alf.coles@bris.ac.uk



Get involved!

The second phase of the Maths Hubs Programme is here.

How can you be part of it?

- Do you have a research project that the Boolean Maths Hub could support?
- Do you run or need CPD?
- Would you like to share your expertise in mathematics education?
- Do you have an idea that could improve students' mathematics experience and raise attainment?
- Do you have articles, leaflets and photos to post on the website?

Upcoming dates for your diary

20th May—SKE+ Cohort 2 taster/launch session, King's Oak Academy

21st May—Making Maths Magical, SS Great Britain, Bristol

21st May—Coaching for mathematical resilience, Bristol

4th June—Primary Maths Mastery Specialist application deadline

5th June—2015/16 Action Plan submission deadline (Could you be part of it?)

16th June—Getting Students using GeoGebra, MEI - Trowbridge, Wiltshire

30th June—Preparing students for STEP exams, University of Bristol



Cabot
Learning
Federation

For further information please contact Rhian Skinner: rhian.skinner@clf.cabot.ac.uk



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