

SYMH Secondary Update

September 2017

Welcome back, I hope you had a relaxing summer. This year promises to be full of opportunities for mathematics education colleagues to make significant steps in developing maths education and building a collaborative community.

*Not least an immediate opportunity on the **15th September at Hallam University** ..*

A conference for school leaders and leaders of learning Using evidenced-informed practice to improve the effectiveness of teaching

Including presentations from Prof. Geoff Wake & Dame Alison Peacock. For flyer and further details [CLICK HERE](#).

A reminder too that both SYMH and FMSP provide a number of opportunities for student enrichment activities. Most of these are free but all are aimed at encouraging a positive attitude towards Maths and encouraging future study in STEM subjects.

*Please note the new **Maths Inspiration** event aimed at y9 – y11's*

“Playing for Real: How Maths can help you win”

at the Sheffield Crucible Theatre on 26 October – [follow this link for details](#).

Best wishes.

Pete

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Lesson Study Conference: Friday 15th September

Following on from this year's programme involving over 100 colleagues engaged in true Japanese Koshi Lesson Study. This conference hosted by Sheffield Hallam University will aim to give delegates the insight into how schools can successfully impact professional development through classroom based research.

Attendees will hear case studies from participants in the highly successful work group last year as well as presentation from Prof. Geoff Wake of Nottingham University and Dame Alison Peacock of the Chartered College. [Click here](#) for further details. To book a place follow [this link](#)

Work groups for 2017/8

Each year the bulk of Maths Hub work is achieved through "work groups". These are organised programme of collaborative events for teachers to work together on a specific aspect of maths education development. Mostly these are free for schools to engage in and available for all. Below are a list of confirmed work groups with more potentially to become available as we await final confirmation from the DfE.

You can register your interest online (no commitment) by following this link.

[**CLICK HERE TO REGISTER AN INTEREST IN A 2107/8 WORK GROUP**](#)

Y5-8 continuity work group

Schools are invited to collaborate with primary partners to explore common approaches to a particular conceptual development (Multiplicative Reasoning) that crosses the key stage 2/3 divide.

Arithmetic skills in KS3

Addressing the basic skills and understanding of numeracy in the key stage 3 years is essential for future success at GCSE. Schools are offered free resources and a proven successful strategy to address the catch-up and consolidation of these skills.

Teaching for mastery programme

This coming year 110 colleagues across the country will continue their development as secondary specialists as part of the national programme supported by the DfE funding. South Yorkshire is lucky enough to have seven such specialists within our region. As part of this continuing initiative a number of teacher research groups (TRGs) will be available across the region for schools to engage in. These will include collaborative planning sessions as well as lesson observations and reflections. Schools are invited to engage in this programme of TRGs which will be available across the region and focus on the development of teaching for mastery.

Mathematical thinking at GCSE

Developing this element of the curriculum that underpins much of what is taught has been a challenge for many schools. This work group aims to address the issues that teachers can sometimes find frustratingly difficult to engender in their learners but is increasingly essential for learners to develop if they are to realise their potential.

Hard to teach GCSE topics

This is part of a national initiative in which colleagues are encouraged to collaboratively develop strategies to address specific topics. Strategies and resources will be freely shared and whilst there will be an element of “quick wins” considered, the longer term implications for learning at KS3 will also be reviewed.

Incorporating Technology into learning

This work group will focus on developing strategies and resources to support teachers at GCSE and beyond to incorporate this aspect into everyday teaching. This will include resource development and trialling ideas out in the classroom followed by collaborative reflection and review. It is anticipated that the use of Geogebra as a tool for graphing, geometric modelling and a statistical analysis is investigated.

Maths Inspiration event – Thursday 26 October

MATHS SHOWS FOR YEAR 10s AND 11s

★★★★★

**“I didn't expect to enjoy it,
but it was amazing.”**

Year 10 student

mathsinspiration.com





Playing forReal

How Maths Can Help You Win



Crucible Theatre, Sheffield
Thursday 26 October 2017

Morning show 10am–12pm
Afternoon show 1–3pm

Tickets £9 (inc VAT) – teachers & PGCE students **FREE**.

The Crucible Theatre is a 5-10 minutes walk from the train station.

Inspire your **Year 10s and 11s** with a maths show that will captivate even your unenthusiastic mathematicians.

If you think games are just for fun, then think again. Games contain some of the most important maths you'll ever need in everyday life, from managing money to out-thinking competitors. In this feast of mathematical games our speakers will demonstrate the unlikely usefulness of probability, puzzles and percentages. You'll get a chance to play some games, and you could even win a prize.

It's the most important fun you'll have this year.

BOOKING

To provisionally book seats visit our website, at www.mathsinspiration.com/booking. You are provisionally booked once we email you back, at which time we will give you the deadline for when you'll need to confirm your numbers and make your payment. We encourage you to pay by BACS, though we also accept cheque payments.

For full terms and conditions and more details on our events and speakers as well as tips for teachers, please visit our website.

Our contact details are:
sarah@mathsinspiration.com | 01483 527712

WHAT TEACHERS SAID ABOUT THE SHOW . . .

"Brilliant - Perfectly pitched!"
ASHFIELD SCHOOL

"Really engaging and fun WITHOUT trying to hide the maths." RIPLEY ACADEMY

"Great that students were able to see that maths is important beyond just exams."
OCKBROOK SCHOOL

"Fantastic - So enjoyable. And students have gone away seeing some 'real' uses of maths."
DUCKERIES ACADEMY, OLLERTON

A joint venture between Maths Inspiration and The Further Maths Support Programme

www.mathsinspiration.com

 [@mathinspiratn](https://twitter.com/mathinspiratn)
[youtube.com/MathsInspiration](https://www.youtube.com/MathsInspiration) 

Barnsley Maths Feast invitation – 17th October

Following the success of last year's second Barnsley Maths Feast, we are happy to invite you to the third edition. This will take place at Horizon Community College on Tuesday 17th October at 12:45pm for a 1pm start, to finish no later than 3.30pm.

The Maths Feast is aimed at Y10 top achievers, and comprises of up to six rounds, in order to test pupils' mathematical, communication, and teamwork skills, in a competitive environment.

Pupils work in teams of 4, and we would be happy to accommodate as many teams as you want to bring. (Last year schools brought between 1 and 3 teams).

To book a place please drop me an email at dRussell2@horizoncc.co.uk

We look forward to seeing you in October!

Dan Russell

MEI online course – Thinking Mathematically

MEI has recently developed a [new online course](#), well suited to those new to teaching 11-16 Mathematics.

Thinking Mathematically has been carefully designed to:

- support and [inspire](#) new teachers or those teaching 11-16 maths for the first time
- increase [confidence](#) with innovative pedagogy development
- extend [competence](#) with teaching up to higher tier GCSE Mathematics
- facilitate [collaboration](#) with others at a similar career stage

The month-long course features four live online sessions, recorded for easy playback, set in MEI's new online classroom. Anyone enrolling on the course will also gain access to [high quality classroom resources](#), including those designed to support the use of technology.

The fee for this course is **just £50**. Any participant who subsequently enrolls on [Teaching GCSE Mathematics](#) (TGM), our extended offering for teachers new to 11-16 maths, will receive a £50 discount for that course.

For further details [click here](#) or contact the course leader debbie.barker@mei.org.uk
Register online at bit.ly/ThinkMathMEI