

## **SYMH Secondary Update**

**October 2018**

*Most of these professional development programmes **will begin in October.***

*Remember these professional development opportunities are **FREE** to participate in.*



### **Secondary work groups**

*A total of 12 work groups across the South Yorkshire region addressing the issues around planning and delivering great lessons in maths*

### **Post 16 work groups**

*Three work groups to choose across the South Yorkshire region addressing GCSE re-sits, Core Maths and using technology in A level*



*Best wishes.*

*Pete*

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### **Senior Team Challenge**

Two opportunities for our local schools this year with heats in

Doncaster on the 21<sup>st</sup> November &

Sheffield on the 27<sup>th</sup> November

For full details and how to book your school's place [follow this link](#)

## Work groups for 2018/9

For more details about each work group please see the South Yorkshire Maths Hub website at [www.symathshub.org.uk](http://www.symathshub.org.uk) where you will find contact information for each work group lead with whom you can register your interest and find further details of venues and dates/times of workshop sessions.

Phase	Work Groups for schools to develop teaching of mathematics
All phases	<a href="#"><u>Developing working partnership for SEND and mathematics</u></a>
	This programme involves mainstream and special schools working together to improve SEND provision in maths. Participants will explore ways to encourage reasoning and the use of manipulatives, providing a different approach to working with SEND students across mainstream and special schools. The pedagogy introduced, and any resources trialled, would support the principles of teaching for mastery.
All phases	<a href="#"><u>Teaching Assistant SKE</u></a>
	There is more to subject knowledge than being able to do the maths yourself. The Teaching Assistant SKE project is designed to develop teaching assistants' subject knowledge in maths so they can support children's learning in the classroom and in small intervention groups.  Participants will also work collaboratively, led by a local leader of maths education (LLME) to develop deep and secure subject knowledge and appropriate pedagogy so they are well-equipped to support pupils.
KS2-3	<a href="#"><u>Y5-Y8 continuity</u></a>
	Teachers from different phases will work together in this Work Group with the overall aim of improving continuity of learning by pupils in the four years between Years 5 and 8. Participants in this Work Group will focus on multiplicative reasoning and the topic of proportion, by exploring how each approaches this aspect of the mathematics curriculum and develop a consistent approach to it through discussion, joint lesson design and delivery, observation and the development of documentation to support continuity.
Secondary	<a href="#"><u>Mathematical thinking for GCSE</u></a>
	This Work Group offers teachers and their departments support to address the reasoning and problem-solving challenges of the maths curriculum and its assessment in the new GCSE.  Many departments will be considering not only the long-term development of these skills, but also the immediate needs of current KS4 pupils facing the challenges of the new GCSE. This Work Group aims to support both these aspects

	through professional development activities focusing on practical and accessible classroom-based approaches.
<b>Secondary</b>	<b><u><a href="#">Challenging topics at GCSE</a></u></b>
	Work groups will focus on a single GCSE 'topic' at a time within the groups, establishing what the issues are and what the common misconceptions are, how these might be addressed through activities and questioning which promote deeper thinking and how teaching in KS3 might be modified or utilised to improve understanding for this topic in KS4.
<b>Secondary</b>	<b><u><a href="#">Supporting Post-16 GCSE Resit</a></u></b>
	There are two broad aims for this project. First, to explore effective ways of teaching key content to GCSE resit students. Second, to explore effective ways of working with teachers of post-16 resit GCSE. The project will build on its predecessor in 2017/2018, with the additional element this year of developing a longer-term view of partnership working with FE Centres of Excellence as they emerge in 2018 and beyond.
<b>Post 16</b>	<b><u><a href="#">Using Technology in the new A level</a></u></b>
	The new A level requires that the use of technology 'permeates' study of mathematics. This Work Group, run in partnership with the Advanced Maths Support Programme, will explore practical approaches for integrating technology in the A Level Mathematics (or Further Mathematics) curriculum. Participants will explore where, when and how to use technology to enhance students' learning, understanding and experience, and will develop their own technology skills. The underlying theme of each Work Group is to develop participants as technology champions in their own departments
<b>Post 16</b>	<b><u><a href="#">Teaching Core Maths</a></u></b>
	The success of Core Maths depends in part on the growth of the pool of teachers, schools and colleges with the necessary expertise, experience and enthusiasm to teach it. This project, run collaboratively by the Maths Hubs Network and the Advanced Mathematics Support Programme (AMSP), will contribute to the wider national effort to grow that pool, and embed Core Maths confidence and culture within school and college maths departments.

If you are interested in finding out more about your school's involvement with the South Yorkshire Maths Hub or to find out more about Teaching for Mastery and FREE professional development opportunities please contact

Pete Sides - [psides@symathshub.org.uk](mailto:psides@symathshub.org.uk)

Visit [www.symathshub.org.uk](http://www.symathshub.org.uk) to see which work groups are available in your area and you will find contact information for each work group lead with whom you can register your interest and find further details of venues and dates/times of workshop sessions.



## WIPRO Teacher Fellows: Information evening 15<sup>th</sup> October (4:30-6:30) SHU

A message from the WIPRO team

### ***A new collaboration between Wipro Limited & Sheffield Institute of Education***

*The Wipro Teacher Fellow and Teacher Mentor Programmes aim to increase young people's enjoyment, attainment and progression in the STEM subjects by supporting teachers to develop their practice in an innovative, evidence-based, collaborative programme of professional learning.*

*Over 18-24 months, Wipro Teacher Fellows (teachers in the early stages of teaching the STEM subjects from South Yorkshire secondary schools) will collaborate with expert colleagues and Wipro Teacher mentors, to:*

- improve their subject and pedagogical knowledge*
- learn more about their practice through evidence, enquiry and curriculum design*
- develop, trial and evaluate innovative ways of teaching their subject*
- carry out a long-term enquiry into their practice, with optional accreditation at MA level*

*Wipro Teacher Mentors (expert, experienced teachers of STEM subjects from local schools) will support the Teacher Fellows through monthly meetings, and participate in their own bespoke programme of professional development, including the option to carry out a long-term enquiry into their practice with accreditation at MA level.*

*The Teacher Fellow programme is aimed at teachers in the early stages of teaching mathematics, physics, chemistry, biology, computer science, D&T or engineering. All secondary schools in South Yorkshire are welcome to nominate teachers to become Wipro Teacher Fellows, and/or nominate experienced teachers to join us as Wipro Teacher Mentors. The schools of all Fellows and Mentors will receive a bursary to support their participation.*

**To download a flyer for further information – [click here](#)**

## **Maths Inspiration - Crucible on 25th October 1pm - 3:30pm**

A message from the Maths Inspiration team.

*“Maths Inspiration Sheffield is a fantastic afternoon of extra-curricular, engaging maths shows at The Crucible Theatre on October 25th from 1pm to 3:30pm and aimed at year 11, 12 and 13 students. Tickets for the show are just £9 (inc VAT) with free seats for teachers.*

*This year the host is Jennifer Rogers (Director of Statistical Consultancy at the University of Oxford and a popular science presenter) and the three shows will be:*

- *Hugh Hunt: Maths in a Spin*
- *Sammie Buzzard: A Slippery Situation*
- *Colin Wright: Patterns, Predictions and Juggling*



*Further details about the show and the speakers are available on the website ([www.mathsinspiration.com](http://www.mathsinspiration.com)) but please feel free to get in touch with Andrew Sharpe to discuss any questions about the show, organising the trip, risk assessments or any other enquiries at [andy@mathsinspiration.com](mailto:andy@mathsinspiration.com) or 07401441075”*

**For further information please go to [www.mathsinspiration.com/home](http://www.mathsinspiration.com/home)**

### **South Yorkshire Maths Hub Primary Update**

**Past copies of Update can be uploaded from the SYMH website [newsletter page](#).  
SYMH Administrator Tara Webster can be contacted at [admin@symathshub.org.uk](mailto:admin@symathshub.org.uk)**

#### **Data Privacy**

As part of our role in leading the South Yorkshire Maths Hub, Notre Dame collects and hold a certain amount of data about individuals involved in our work.

#### **Engagement in work groups**

The data includes name, role (with respect to hub work), school, email address, NCETM username and (in some cases) telephone number. The agreement between us and the Department of Education requires us to monitor and evaluate our work as a Maths Hub, and this is the legal basis for the data that we hold, on, for example, participation in the Work Groups that we coordinate. Such data is reported on a regular basis to the NCETM and shared with those individuals and organisations who are providing Maths Hub Leadership in our region (for example running work groups) to enable them to communicate with participants. In addition, we use this data to keep in touch with you on professional development opportunities and related matters.

This data will be retained for the duration of the activity of the South Yorkshire Maths Hub.

#### **Newsletter registration**

We collect and hold data of individuals who have registered to receive e-newsletters we send as part of our role in coordinating the South Yorkshire Maths Hub. The data includes name, school and email address. This data is used solely for distribution of newsletters and Hub related communication and is not shared. Personal data held for the distribution of newsletters will be retained until such point that you contact us to request that we remove your data from this list.

If you have any questions or concerns around our privacy policy please contact [admin@symathshub.org.uk](mailto:admin@symathshub.org.uk) or [data@notredame-high.co.uk](mailto:data@notredame-high.co.uk)

