

Secondary and Post-16 Newsletter

July 2022!

In this month's newsletter...

- A BIG Thank you
- Maths Hub Catalogue 2022-23
- **Now Open!** Work Groups 2022-23
- Secondary Embedding and Sustaining Work Group
- Checkpoints
- Tweet Us!

A BIG Thank You

As we come to the end of the year and the time we are all starting to look forward to the summer break, we would like to take the opportunity to thank every single person who has attended a Work Group, participated within a national programme and has contributed towards the aims of the South Yorkshire Maths Hub over this academic year. Our key priority is to make a difference to all children's mathematical experiences across South Yorkshire.

We are so grateful for your constant support, time and effort. We are so proud of our Hub and are extremely thankful that we get to work with so many passionate and dedicated colleagues within Maths. It is truly inspiring and you are the reason we get to carrying on growing as a Hub every single year. This year we have had a South Yorkshire Maths Hub record breaking amount of engagement as **234 schools and 585 teachers** have participated in Work Groups across Early Years, Primary, Secondary and Post 16.

We would also like to take this opportunity to share with you some feedback from Work Group participants!

"Our Work Group Lead has been a fantastic on this programme and always made time for our professional development in addition to delivering the content. Additionally, the extra sessions put on have been invaluable for developing correct usage of concrete tools such as double-sided counters."

- *Secondary Non-Specialist Participant*

"Thank you to our Work Group Lead for supporting us to apply the content to our unique setting. You have been really flexible and understanding and we think that the work that we do with the department will be really beneficial. The support with the SOW is invaluable."

- *Secondary Embedding Year Support Participant*

The South Yorkshire Maths Hub Catalogue 2022-23

[Check out our brand-new catalogue here!](#)

Open Now!

Work Groups 2022-23

All of our planned Work Groups for the next academic year have now been announced and published onto our website;

www.symathshub.org.uk

There are many DFE funded Work Groups to choose from. Remember all of our Work Groups are **FREE TO ACCESS!** and sign up has opened so please visit our website to reserve your place now!

Through these forms you can also request a consultation call where a member of the team can help advise you which Work Groups best suit your current needs.

See below a list of all of the planned Work Groups taking place next year!

Click the titles to take you to the website page to read even more!

Secondary Teaching for Mastery Development Work Groups

The Teaching for Mastery Programme is a professional development opportunity designed to support teachers like you to develop best practice in maths in your school. It is suitable for schools interested in implementing a teaching for mastery approach to maths.

Secondary Subject Leadership Work Groups

The project is for secondary heads of department/subject leaders, and is open to heads of department in schools already involved with Maths Hubs and to those who are not yet involved. In their first year of engagement with this project, participants will be part of a Work Group. In subsequent years they will be part of a Maths Hub-led subject leadership community.

Secondary Maths MAT Leads Programme

The project is for those who lead maths across multiple schools within a MAT, including at least one secondary school. This includes MAT maths leads who are continuing from 2021/22, and new participants. To better engage in the programme, participants are encouraged to have at least one school in a Secondary Teaching for Mastery Work Group in 2022/23, but this is not essential.

Mathematical Thinking for GCSE Work Groups

This is for teachers of KS4 who want to further understand mathematical thinking, and devise related practical classroom strategies. Participants will be expected to lead

developments in their own department and so should have the opportunity and authority to do this effectively. The project also offers an entry point into developing mastery approaches, or could support a department already involved in the Teaching for Mastery Programme.

Years 7-11 Coherence Work Groups

The project offers an entry point into developing mastery approaches, or could support a department already involved in the Teaching for Mastery Programme.

Years 5-8 Continuity Work Groups

This project is for both primary and secondary schools. It may be particularly suitable for linked 'families' of schools: primary, secondary, etc. A 'family' could be a secondary school and their associated (feeder) primary schools or groups of schools from within a MAT. Lead participants should be teachers of Years 5-8, ideally with some responsibility for curriculum development.

New to Teaching Core Maths Programmes

This programme is for teachers who are in the first two years of teaching Core Maths and are teaching a Core Maths class during the academic year 2022/23.

Developing Core Maths Pedagogy Work Groups

These Work Groups give teachers opportunities, through collaboration and experimentation, to develop improved teaching approaches that support the open-ended problem-solving skills Core Maths students need to develop, and to share these with departmental colleagues. Work Groups may be face-to-face or online and will include school-based activities between workshops. Participants should be experienced and developing teachers of Core Maths from schools and colleges in at least their second year of teaching Core Maths.

Developing A Level Pedagogy Work Groups

These Work Groups support experienced A level teachers to not only further develop their expertise but provide a model to support departmental change. Participants should be existing leaders of A level teaching or experienced teachers of A level Mathematics who wish to lead the development of pedagogy with other colleagues in their own or other schools.

Specialist Knowledge for Teaching Mathematics (Secondary ECT – Phase 1)

Communities

Two maths-specific subject knowledge projects are available to support secondary Early Career Teachers. Both projects offer high-quality subject knowledge and pedagogy maths support for ECTs, recognising the requirements of the ECF. Phase 1 Communities in this project are for those identified as Early Career Teachers – teachers in their first or second year of teaching.

Specialist Knowledge for Teaching Mathematics (Secondary ECT – Phase 2)

Communities

Two maths-specific subject knowledge projects are available to support secondary Early Career Teachers. Both projects offer high-quality subject knowledge and pedagogy maths support for ECTs, recognising the requirements of the ECF. Phase 2

Communities are for those in the early part of their careers. They will have engaged with Phase 1 before engaging with this phase.

Specialist Knowledge for Teaching Mathematics (Secondary Non-specialist Teachers) Programmes

This project is designed to support non-specialist teachers teaching maths in a secondary school in developing specialist knowledge for teaching mathematics, thus enabling them to understand, teach and support students in maths in the classroom.

Strengthening Partnerships with ITT Providers Community

This project aims to form an established group of ITT representatives across the sector who are committed to developing communities of practice in order to review and evolve their provision.

[Sign up form here!](#)

Secondary Embedding and Sustaining Work Group

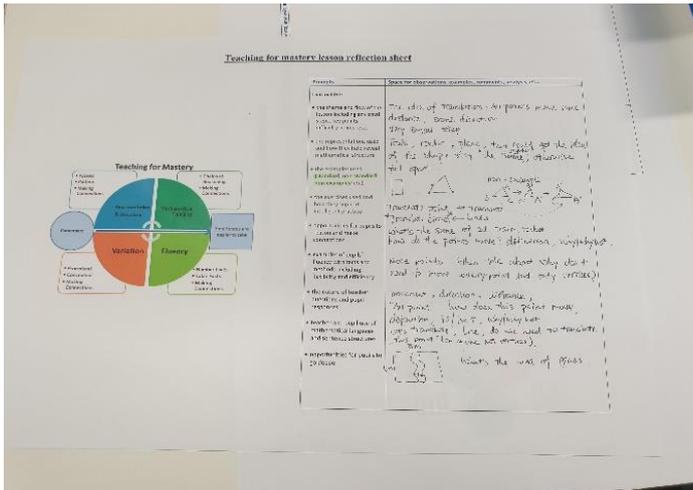
Take a look at the end of year update from Kevin Styles, Secondary Assistant Lead who is leading the Embedding and Sustaining Work Group. The Work Group finished the year with a final session looking at;

- The teaching of Pythagoras' theorem
- How to plan a TfM curriculum
- A Shanghai lesson on translation
- S-planning for topics in the autumn term

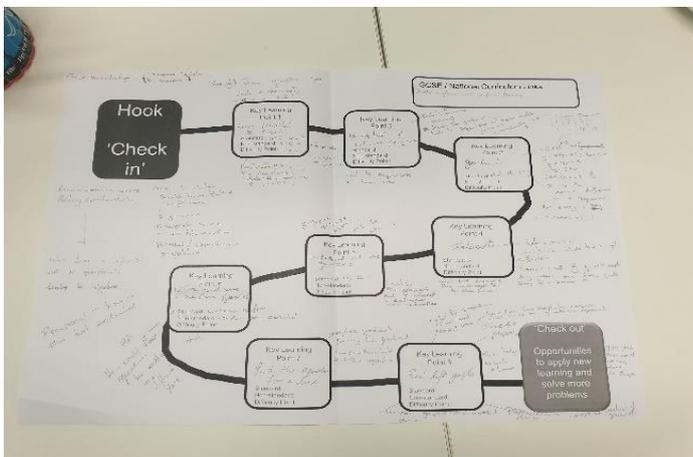
We explored the Nrich task tilted squares [Tilted Squares \(maths.org\)](https://www.maths.org/) as a starting point for teaching Pythagoras and focussed on the key idea of areas adding together.

Advocates looked at the ways we could build a TfM curriculum using the KS3 Non-statutory guidance. We saw how in the Shanghai lesson the key ideas were broken down so students explored in depth what translation is. We also looked at how they translated whole buildings in Shanghai.

Below is an example of a lesson review form from the translation lesson.



We finished the session with advocates working together on s-plans for topics they would teach in the Autumn.



Some comments from the advocates over the sessions have been:

"Thank you – this will change the way I teach."

"I am confident now to explore these ideas with staff and develop ideas."

"The well thought out session has allowed me to think about how I plan my lessons and explore my teaching"

"Loved your socks!"

It has been a real pleasure running this work group and I have learn so much myself.

Thank you to all those that were involved.

Kev Styles Tfm Specialist, Assistant Secondary Lead

Checkpoints!

The new **NCETM Checkpoints resources** are designed to support Year 7 teachers in formatively assessing what mathematical understanding their students have brought from primary school. All Checkpoints are now available to download for free, and come with PowerPoint slides, a comprehensive guidance document and advice for teachers using them.

The feedback on these has been extremely positive, with many departments using them across several year groups and for varying reasons – not just assessing KS2

understanding. They open up rich discussions between students and are a great tool in identifying misconceptions.

If you have used any, please let us know your thoughts at admin@symathshub.org.uk

Tweet Us! @SYMathsHub

Another way to keep up to date with The South Yorkshire Maths Hub is to follow us on Twitter @SYMathsHub.

We regularly tweet updates from ourselves and retweet fantastic resources shared by the NCETM. We also love to share schools and participants tweets, showing us the great impact in classrooms as a result of one of our Work Groups!

Contacts

If you are interested in finding out more about your school's options please do get in touch.

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