

Happy Easter



From Cheshire & Wirral Maths Hub

Spring Term Newsletter

What a term!

Schools have had to navigate the complexities of snow days and strikes, all whilst trying to ensure that young people in our schools receive the best possible education. At the Cheshire and Wirral Maths Hub we have had another successful term working with close to 300 schools and around 750 teachers, helping improve mathematics education across the area. A personal highlight has been spending time in both primary and secondary schools and seeing teaching for mastery developed in practice. There is a tangible difference in how pupils respond to maths lessons when teaching for mastery is implemented effectively - learning is more visible and accessible for all learners. The following quote from a primary school pupil I spoke to recently sums it up well; "in our maths lessons, anyone can do well if you work hard and concentrate". This is such an important thing for schools to recognise and communicate to pupils - the basis of success in a mastery curriculum is resilience and hard work on the part of the pupils, coupled with high quality teaching that is based on research. This is what teaching for mastery is all about.

We are looking forward to the Summer term where our Work Groups for this academic year will come to an end. However, as many will know, Maths Hub programmes do not just stop after one year - we want to continue to work with schools in a sustained manner. In this newsletter you will find many opportunities to collaboratively work within the Cheshire and Wirral Maths Hub next academic year.

A Problem for You...

See if you can find the most elegant solution to the following problem - answers via Twitter! [@cheshirewirral](https://twitter.com/cheshirewirral)

Kim spent one third of her money on 5 magnets and 11 postcards. The cost of each magnet is 3 times the cost of each postcard. She bought some more magnets with three quarters of her remaining money.

How many magnets did Kim buy altogether?

Opportunities for Academic Year 2023-24


As we head into the Summer Term, we will be looking to invite schools and teachers to apply for Work Groups that will take place in the next academic year (2023/24). At the end of this newsletter you will find a list of different opportunities that we will be offering. As always, the most important thing is that you consider how our Work Groups can support *you and your school with the key developments that you want to make to the maths curriculum.*

Please head over to our [website](#) to have a look at next year's projects – we are now accepting applications for all programmes.

Spotlight on our Specialist Knowledge for Teaching Mathematics Programmes

Specialist Knowledge for Teaching Mathematics Programmes are run by local leaders of mathematics education (LLME). These programmes provide intensive support for teachers at key points in their professional development that complements the ongoing support for developing specialist knowledge and teaching for mastery within schools and colleges.

On our SKTM programmes, we view Specialist Knowledge as the blend of subject knowledge (knowledge of mathematics) and pedagogical knowledge (knowledge of mathematics teaching). These programmes are designed to develop both of these aspects to have direct impact on classroom practice.

Phase	SKTM Programmes	
Primary Schools	<ul style="list-style-type: none"> • Early Years Teachers (NCP23-25) • Primary Teachers (NCP23-26) • Primary TAs (NCP23-27) • Primary ECTs (NCP23-28a/b) 	 <p>The diagram features a central blue hexagon labeled 'SKTM Programmes'. It is surrounded by three grey hexagons: 'TLM Work Groups' at the top, 'Professional Learning Communities' at the bottom, and 'Relationships with school and trust leadership' at the bottom. All these elements are contained within a larger orange circle.</p>
Secondary Schools	<ul style="list-style-type: none"> • Secondary ECTs (NCP23-29a/b) • Secondary Non-specialist Teachers (NCP23-30a/b) • Secondary TAs (NCP23-32) 	
Post-16 Institutions	<ul style="list-style-type: none"> • Core Maths Teachers (NCP23-22) 	

Participants in an SKTM programme join a cohort of colleagues from other schools on a series of sessions that are designed to be run over a year, so the professional development is sustained and not viewed as a one-off event. All programmes focus on the professional learning of the individual attending, and on how the individual can adapt their practice to directly benefit pupils in their classes.

Core materials have been developed to ensure quality and consistency across the Maths Hubs Network. Cohort Leads will use these as a basis for their programme and will tailor to their local needs. Between sessions, Cohort Leads will design and set appropriate tasks for participants to engage with in their school to support practice development in the classroom. This might involve engaging with action research cycles, observing learning, reading and reflection, collaborative work, or engaging in professional learning conversations with colleagues.

Our Research and Innovation Work Groups (RIWG's)



'Research and Innovation Work Groups' (RIWGs) have been designed to influence programmes offered in the national Maths Hubs Programme.

At the Cheshire and Wirral Maths Hub we are running five Research and Innovation Work Groups this academic year, below is some information about two of them.

Teaching for Mastery (TfM) in the context of special schools and alternative provision

Facilitated by Lorna Goulding and Finbarr Biscoe-Taylor

This RIWG aims to answer the question: *'What does teaching for mastery in special schools look like, and how can we support the development of teachers in adopting this approach in their provision? How can we build mathematical resilience in students in a special school setting?'*

One of the key barriers to learning that I've observed in my experience of teaching in an ASD/SEND school has been the lack of mathematical resilience across various ages and abilities. I believe that improving this within our pupils' mindsets would have a drastic effect on their mathematical progress and outcomes, as well as enjoyment and engagement.

I am keen to explore a variety of adaptive approaches as I am very aware that all students with SEND/ASD have very individualised sensory needs and will need a variety of approaches to help mitigate these barriers in cohesion with the mathematical subject barriers.

Supporting apprenticeships

Facilitated by Alison Sutch and James Maloney

This RIWG aims to answer the question: *'How can we raise awareness and improve understanding in the Post 16 maths community of the maths content, demands and approaches required for success in Higher STEM Apprenticeships?'*

We ran a working party last year with a focus on identifying the issues that were being experienced by employers of young people and apprenticeship providers. We heard much evidence that school-leavers at 16 and 18 were not able to translate their school maths into the workplace.

This year we have met with providers including HSBC and Siemens to follow up on these issues. We are also meeting with some apprentices and hope to produce a case study identifying areas for further research.

Upcoming Dates

Open Lessons

These are open lesson opportunities primarily aimed at headteachers and maths subject leaders. Places are limited so book quickly to avoid missing a place!

Rode Heath (Cheshire East) – 23rd March 2023 (FULLY BOOKED)

Oldfield (CWAC) – 25th May 2023 (FULLY BOOKED)

Our Lady of Pity (Wirral) – 22nd June 2023 - [available to book \(limited capacity\)](#)

Rode Heath (Cheshire East) – 4th July 2023 - [available to book \(limited capacity\)](#)

Primary Maths Subject Leader Network Meetings

Halton—29th June 2023 - Fairfield Primary School - 1-3pm - [click here to sign up](#)

Cheshire West and Chester—3rd July 2023 -Meadow Primary School - 1-3pm - [click here to sign up](#)

Cheshire East—5th July 2023 - Holmes Chapel Comprehensive School - 1-3pm - [click here to sign up](#)

Primary Headteacher Maths Updates

Online—23rd June 2023 (two options—click below to sign up)

- [Option 1—1.30pm-2.30pm](#) [Option 2—3.45pm-4.45pm](#)

Message from Richard Middlebrook and Andy Ash

Our continued thanks to everyone involved in the work of our Maths Hub. It has been so rewarding to see the ongoing positive impact we are having on the quality of maths teaching across our region, pupils' mathematical development and in turn improved understanding and outcomes in maths. As a hub, our levels of engagement with and impact in schools and classrooms across the north west is fantastic, and way above national figures. That is down to the hard work, support and resilience of everyone involved. We would both like to thank you for that, you are making a difference and improving the life chances of young people across our region. We look forward to the term ahead and in the meantime have a well deserved and relaxing Easter break.

Best Wishes

Richard and Andy

Key Contacts:

Maths Hub Senior Lead: Richard Middlebrook

Maths Hub Lead: Andy Ash

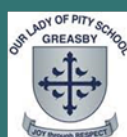
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Website: <https://cheshireandwirralmathshub.co.uk>

Cheshire & Wirral Maths Hub in collaboration with:



AVAILABLE TO BOOK NOW - Maths Hub Work Groups for Academic Year 2023-24

Please find below our Work Groups for the next academic year 2023-24. All information is on our website, please find the links to apply below.

Early Years ([click here for website](#)) and Primary ([click here for website](#))

NCP23-07a	Mastering Number Work Groups
NCP23-08	Mastery Readiness Work Groups
NCP23-09	Primary Teaching for Mastery Development Work Groups
NCP23-19	Years 5-8 Continuity Work Groups
NCP23-25	Specialist Knowledge for Teaching Mathematics (Early Years Teachers) Programmes
NCP23-26	Specialist Knowledge for Teaching Mathematics (Primary Teachers) Programmes
NCP23-27	Specialist Knowledge for Teaching Mathematics (Primary Teaching Assistants) Programmes
NCP23-28a	Specialist Knowledge for Teaching Mathematics (Primary ECT – Phase 1) Programme
NCP23-31	Strengthening Partnerships with ITT Providers Community

Secondary ([click here for website](#))

NCP23-12	Secondary Teaching for Mastery Development Work Groups
NCP23-15	Secondary Maths Subject Leaders Community
NCP23-16	Secondary MAT Maths Leaders Community
NCP23-19	Years 5-8 Continuity Work Groups
NCP23-29a	Specialist Knowledge for Teaching Mathematics (Secondary ECT – Phase 1) Programmes
NCP23-30	Specialist Knowledge for Teaching Mathematics (Secondary Non-specialist Teachers) Programme
NCP23-31	Strengthening Partnerships with ITT Providers Community
NCP23-32	Specialist Knowledge for Teaching Mathematics (Secondary Teaching Assistants) Programmes

Post-16 ([click here for website](#))

NCP23-22	Specialist Knowledge for Teaching Mathematics (Core Maths Teachers) Programmes
NCP23-24	Developing A Level Pedagogy Work Groups
NCP23-31	Strengthening Partnerships with ITT Providers Community

Should you need any additional information, please email us at mathshub@ourladyofpity.co.uk