

# Newsletter December 2019

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## Primary Update

Our **specialist knowledge for teaching mathematics** has proven to be a popular programme with many primary teachers and teaching assistants attending Work Groups to develop their mathematical subject knowledge, in conjunction with understanding the pedagogy that underpins the teaching of it. Our experienced Primary Lead, Imogen Furlong, gave a detailed insight into mathematical structures to provide participants with a thorough understanding of how children learn early mathematical concepts.

In addition to being held at Altrincham Grammar School for Girls, this work group will run in Rochdale and Oldham.

If you or a colleague would like to join the programme, please contact us.

## Secondary Update

Our **challenging topics GCSE** programme has started and is designed to deepen teachers' subject knowledge and understanding of the pedagogy linked to mathematical reasoning, to ensure more effective lesson planning. The next session is on 13<sup>th</sup> January at Altrincham Grammar School for Girls.

**Mathematical thinking** is a four half-day event looking at mathematical structures in GCSE level topics, improving pupils' confidence, fluency and logical precision when they engage in mathematical reasoning. The next session is on 15<sup>th</sup> January at The Derby High School.

**Year 5-8 continuity work groups** is a successful programme which we have run for many years to provide high quality professional development and curriculum resources in order to improve learning and teaching of proportional reasoning within Key Stage 2 and 3. The next session is on 16<sup>th</sup> January at North Chadderton. We are also running this programme in the Spring term in conjunction with Teach Manchester at St. Mary's in Moss Side.

## Welcome

A warm welcome to the December edition of our newsletter. As 2019 draws to a close, we reflect on our projects so far this academic year and look forward to many exciting events planned for 2020.



With 703 participants and 274 schools already working with NW1 Maths Hub on various projects for professional development, we look forward to another successful and productive year, working with even more schools across our boroughs.

We are delighted to have recruited 2 new maths hub administrators to our team this academic year. Liz Wright and Kate Griffin have joined the team to provide vital administration, financial and marketing support for NW1 Maths Hub.

A particular highlight for 2020 will be our annual China exchange project. Our colleagues Natalie Jayson from Mersey Drive Primary, Nicola Jordan from Nevill Road Junior School and Mike Malone from The Derby High School, have visited China and benefited from collaborating with and observing Chinese colleagues. In March, we will be hosting five colleagues coming from Shanghai, two primary and three secondary teachers. There will be a series of showcases that enable colleagues to come and watch teaching for mastery exemplar lessons. These dates will be announced in our newsletter in the New Year.

I wish you a very merry Christmas.

Simon Mazumder  
NW1 Maths Hub Lead

## Key Dates

LLME Conference: 21<sup>st</sup> January 2020, Didsbury High School

### Post 16 Update

Work group lead Mick Blaylock, will be running 3 sessions on *improving A level maths, embedding technology*. Starting on 22<sup>nd</sup> January 2020 at Oldham Sixth Form College, Mick will help teachers embed technology within their teaching using pre-prepared resources and making spontaneous use of technology in explaining and exploring mathematical ideas.

Exploring effective ways of teaching key content to GCSE resit students and increasing awareness of pedagogical approaches were addressed at the first two sessions of our *post-16 GCSE resit* programme. The next session on 13<sup>th</sup> January will continue to share best practice of teaching approaches such as bar modelling, multiplicative reasoning or realistic contextualisation.

Work group lead, Andrew Birch is facilitating our *supporting core maths work group* to look at developing cross-curricular approaches, embedding preliminary materials in teaching and developing student-led discussion and presentation. The next session is on 29<sup>th</sup> January at University of Manchester.

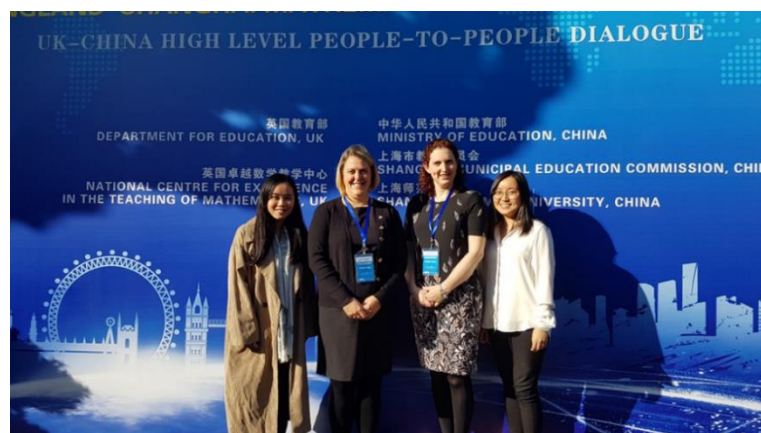
### Teaching for Mastery Update

A group of **primary** embedding participants enjoyed a detailed and hands-on session to explore **lesson design**, run by Claire Williams from Alexandra Park Primary. Natalie Turner, Head of Year 6 and maths lead at Beaver Road Primary said, "It was really good; Claire Williams responded to the needs of the group and she was so thorough and helpful. I took a lot away from it."

The **secondary** mastery TRGs met recently at their host schools to look at representations within a mastery curriculum. There was plenty of lively discussion alongside lesson observations and activities. The advocates left with plenty of ideas to try back in their own classrooms. The next meetings in January will look at mathematical thinking and coherence.

### Shanghai Visit

Natalie Jayson and Nicola Jordan visited two schools, Shanghai Yangjing-juyuan Experimental School and Shanghai United International School, during their visit in November 2019. Natalie told NW1 Maths Hub, "It was an honour to be able to spend time with Shanghai maths teachers, observing lessons, discussing pedagogy and hearing about the learning in their schools. It was such a valuable experience."



Our two NW 1 Hub primary teachers Natalie and Nicola, meeting our Shanghai partners during the launch event in November at Shanghai Normal University.



A Grade 3 lesson looking at the relationship between 3, 6 and 9 times tables. The lesson was taught in the new IT suite which allowed the teacher to share representations from the board onto individual's tablets.