

Newsletter July 2020

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Click on your phase to see the fully funded CPD opportunities we are offering in 20/21

[Early Years](#)

[Primary](#)

[Secondary](#)

[Post 16](#)

[Teaching for Mastery – Primary](#)

[Teaching for Secondary - Secondary](#)

Flexible fully funded maths CPD opportunities in 2020/21

Thank you to all of you for supporting our move to online CPD since March. We will continue to offer online delivery into the autumn term until it is safe to resume face to face sessions.

Where possible, the content of all of our programmes will be adjusted to address challenges caused by the coronavirus pandemic, and will incorporate flexible ways of teachers working together, including more online collaboration.

We have an exciting, full range of fully funded opportunities for schools to work with us in 2020/21. Whatever your current position, there's something for your own professional development or to develop maths teaching across your department or school. Projects are aimed at teachers of all school and college phases, from Early Years, through primary and GCSE, to post-16. Our programmes are designed to focus either on whole school or departmental improvement in the way that maths is taught and learnt, or to develop early-career teachers or teaching assistants as better classroom practitioners.

We are pleased to have been able to offer many teachers the opportunity to develop their personal maths-specific professional development including training to become a mastery specialist and a Specialist Lead of Education (SLE).

Working with

National Centre
for Excellence in the
Teaching of Mathematics



Welcome



Well, what interesting times we live in. Despite being in lock down and working from home, I feel ready for the summer holidays. I am not sure how I managed all the school visits, CPD days, meetings and administration! I think working and meeting online is quite time consuming and requires a lot of preparation. Although it will never replace the face to face opportunities afforded, I would like to thank all the LLME's and WGLs who have provided such excellent online workshops, support and meetings. NW1 has really stood up to the challenge and I must thank all colleagues for their hard work and support during these difficult times. I often visit the online workshops and I would recommend going to sessions you would normally not be involved in. It is a great taster of the wider mathematical education offer of NW1.

We are closing on 15.07.20 until 03.09.20 for our summer holiday. We hope you all have a well-deserved and relaxing break and come back refreshed for the challenges of the new academic year.

Simon Mazumder, NW1 Maths Hub Lead

Tackling Racism – New partnership with CRED



As part of the Alliance for Learning, we are pleased to announce that Lisa Fathers, Director of Teaching School & Partnerships has been approved as a Professional Associate of the Centre for Race, Education and Decoloniality (CRED), part of Carnegie School of Education at Leeds Beckett University. CRED was established to undertake research related to race and racism in education. For further information please click [here](#)

Our Alliance for Learning website hosts a huge range of fantastic resources for schools, from dealing with bereavement to mental health. Take a look [here](#)

Early Years

Subject Knowledge for Teaching Mathematics in Early Years



Our **Early Years** ‘taster’ online sessions held in June on composition and mathematical graphics and recordings were very popular and attracted over 120 teachers.

“It was a very useful online session as we’re looking to up skill our EY staff in early mathematical development so thank you.” – Emma Butler, St Thomas’s CofE Primary School

In 2020/21 the programme will consist of 4 x 1 day sessions, designed to help Early Years teachers develop specialist knowledge for teaching maths. Areas to be covered include: number patterns and structures, pattern, shape, space and measures. This is a very popular programme and places fill up very quickly.

To reserve a place please click [here](#)

NW1 Maths Hub strengthens Primary team



We are delighted to welcome Neil Kelsall from Oasis Academy Limeside, who has been appointed Assistant Maths Hub Lead: Primary Co-ordinator for Oldham and Rochdale. Neil will work with schools across the Oldham and Rochdale areas and will also deliver some of our Subject Knowledge Work Group sessions.

Working as a Specialist Leader of Education through the Oasis Innovation Teaching School Alliance in Oldham, Neil supports a range of schools at various levels and also holds a headship qualification and a Masters in Educational Leadership.

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Primary

Diagnostics: Assessing and addressing children’s difficulties with mathematics

The final session of our **Diagnostics** Work Group was run as a series of webinars, looking at assessing and addressing children’s difficulties with maths.

“The whole course was engaging, interesting and really useful. I’m looking forward to sharing it with my maths team and implementing the diagnostics tool in school next year.” – Kate Wilson, Deeplish Primary Academy

“I really enjoyed the whole course. I found it interesting and thought-provoking as well as it providing me with a really useful diagnostic tool. Adam was very engaging too” – Karen Burman, Assistant Headteacher, Smithy Bridge Primary School.

We are delighted to be able to offer this programme again for 2020/21. Adam Gifford will explain the diagnostic approach (developed in New Zealand) that is based on interview techniques and aimed at KS2 children. It aims to provide teachers with a greater understanding of where support is required, and this will be particularly valuable as children return to school. To reserve a place please click [here](#)

Subject Knowledge for Teaching Mathematics - Primary

This very popular programme supports primary teachers and teaching assistants in developing specialist knowledge for teaching mathematics, thus enabling them to understand, teach and support pupils in the maths classroom.

In 2020/21, the programme will consist of 4 x 1 day sessions covering 4 primary modules: number sense, additive reasoning, multiplicative reasoning and fractions.

To reserve a place for the programme starting in September please click [here](#)

Secondary

Opportunities for 20/21

We are delighted to be offering a wide range of fully funded secondary CPD programmes for 2020/21.

Mathematical Thinking for GCSE Work Groups

The key focus of this Work Group is to support teachers in developing their understanding of mathematical thinking as it relates to problem-solving and reasoning, using practical task types to explore what it means for students to get better at mathematical thinking and what this looks like in the classroom.

[Register your interest here](#)

Year 5–8 Continuity Work Groups

These aim to strengthen the transition from primary to secondary school by focusing on curriculum and pedagogical continuity over Years 5 to 8.

[Register your interest here](#)

Challenging Topics at GCSE

This programme focuses on participant teachers working together to 'unpick' (i.e. analyse, deconstruct and trace through the curriculum) a challenging topic, developing insight into the associated difficulties and misconceptions to support teaching in the short term but also considering the implications for longer term curriculum design.

A participant on Challenging topics this year stated, "My knowledge of how to teach maths has deepened by participating in this Work Group; in particular it has encouraged me to use manipulatives more."

[Register your interest here](#)

New Level 3 Lead for NW1 Maths Hub

In addition to running the Challenging Topics Work Group, Mike Thompson takes the post of Level 3 lead from September. Mike is a SLE and maths teacher at Altrincham Grammar School for Girls and brings significant experience including teaching A level maths, to this role. We are excited to welcome Mike on board.



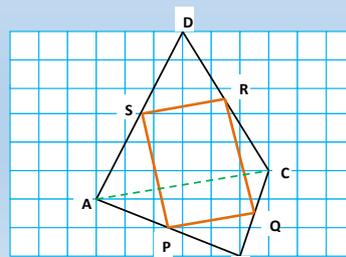
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Problem Solving

The final sessions of our Problem Solving Work Group were held online. Mike Ollerton delivered a very informative, hands-on session about planning a 'unit' of work based upon finding the mid-point of a line segment. Scissors, grid paper and a cube were necessities!

If you would like to be part of this region wide network of maths specialists and work together to develop pedagogy, resources and material to develop deeper mathematical understanding for students, then please click [here](#) to sign up for 2020/21.



Post 16

Opportunities for 20/21

Supporting Post-16 GCSE Resit Work Groups

Join this programme to explore effective ways of teaching key content to GCSE resit students.

[Click here for further details and to register your interest](#)

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 and share these with departmental colleagues

[Click here for further details and to register your interest](#)

Developing A Level Pedagogy (including Use of Technology)

Effective development of pedagogy in the teaching of A level Mathematics to enhance the quality of teaching and the conceptual understanding of students.

[Click here for further details and to register your interest](#)

Teaching for Mastery: Primary

Thank you to all schools who have participated in our Teaching for Mastery programme this current year.

We are delighted to confirm that schools on the **Readiness** phase will continue their journey onto the **Development** phase. Schools currently on the Development phase will move onto the **Embedding** phase. If you have not yet received an email from us with a statement of commitment to complete please email us at adminnw1mathshub@aggs.bfet.uk

Any schools that have completed the Embedding phase, either this current academic year or in previous years, are invited to join a new phase for 2020/21 called **Sustaining**. This is free of charge and an excellent opportunity to continue the mastery journey. For further information please [click here](#)

Not started the mastery journey yet?

It's not too late...we are still recruiting schools to start the Readiness stage in September 2020. Here's just a few of the fantastic comments we have received from schools on the Readiness programme this year:

'The children in my class have a much more positive attitude towards Maths. Those who had very low confidence now believe that they can do Maths.'

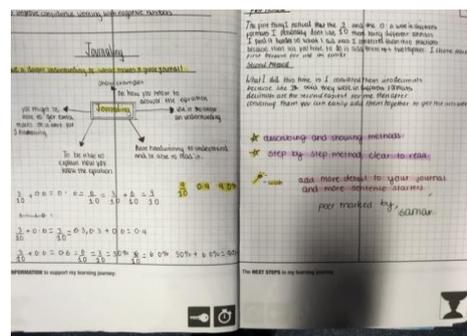
'The children in my class are no longer seeing labels for groups and are just working on learning as a class.'

'Workshops were a massive help as I could use these to train staff. Visits to school from the Work Group Lead were brilliant, as they provided excellent, personalised support.'

[Click here to find out more](#)

Diane Matthew from Chorlton High School and a participant in a Mastery Development Work Group provided an insightful report on teaching journaling to year 7 students. As part of the Development Work Group, Diane looked at what impact does explicitly teaching journaling to year 7 students once a week have on their ability to reason and explain mathematics in a written format, compared to the beginning of term.

"The most significant improvement I noticed was student's newfound confidence. Not only were they able to go into more detail in terms of their justifications and explanations, but they were also more willing to disagree with one another's methods and prove to each other why their chosen method was 'better' or more appropriate for the given question. "



Join a Mastery Development Work Group

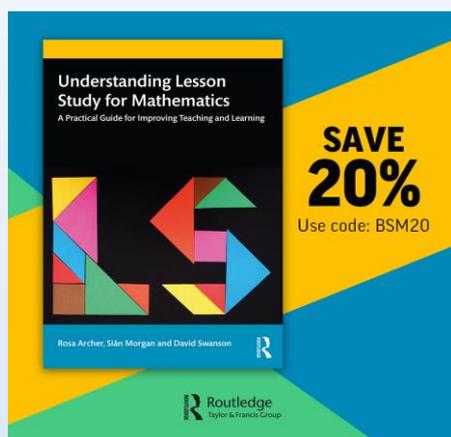
The FULLY FUNDED programme enables two teachers from your school to become 'Mastery Advocates'. Initially they will be part of a Work Group for a year and they will also get in-school support from a Mastery Specialist. The many benefits include:

- collaborating with colleagues from other local schools to share best practice
- receiving individual school support and guidance from a local leader of maths education (LLME)
- gaining ideas to help students become more confident mathematicians, ready to tackle GCSEs and A levels
- introducing and embedding teaching for mastery in your classroom and department

[Click here to register your interest](#)

North West 1 Maths Hub

Introducing a new book by NW1 Maths Hub colleagues



Understanding Lesson Study for Mathematics: A Practical Guide for Improving Teaching and Learning

by Rosa Archer, Siân Morgan, and David Swanson, University of Manchester

Using the latest research, this book provides an insight into how learning in mathematics can be improved through a lesson study approach. Through studying ten lessons in depth, this highly practical resource explores the research and theory that underpins lesson study, and shows the significant impact it can have on teacher development.

Two of the chapters involve teaching colleagues and schools that have worked with the NW1 Maths Hub. Chapter 3 “Developing understanding fractions through context” is based on the Fair Shares lesson that many Maths Hub colleagues will have experienced through the multiplicative reasoning session and more recently the Y5-Y8 Continuity Work Group. Another chapter to highlight is chapter 2 “Perimeter and mastery” which focuses on the development of an anchor task with a year 7 class that many colleagues working on mastery may find of interest.

Divided into ten accessible main chapters that focus in depth on an individual mathematics lesson, each chapter provides research and background to the lesson, an outline of key features, a detailed description and analysis of the lesson in practice, post-lesson discussions and reflections which generalise from the experience, as well as links to helpful resources. Some of the key topics explored include:

- Fractions
- Proportional relationships
- Probability and statistics
- Geometry
- Modelling
- Algebra
- Dialogic reasoning

Understanding Lesson Study for Mathematics is the perfect resource for all mathematics teachers, trainee teachers, and professional developers who are looking to develop the use of lesson study in their own practice or for those simply seeking new inspiring ideas for the mathematics classroom.

Click on the picture of the book above, for details of where to buy it. Please let us know your thoughts by email: sian.morgan@manchester.ac.uk

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