

# Specialist Knowledge for Teaching Mathematics for Early Career Teachers in Primary



This project is designed to support primary early career teachers (teachers in their first two years of teaching) in developing specialist knowledge for teaching mathematics, thus enabling them to understand, teach and support pupils in maths in the classroom.

## What is involved?

At a local level, Work Groups will explore one of the following themes of designing effective learning and teaching in maths:

- Building early number concepts
- Additive reasoning
- Multiplicative reasoning).

Participants will work deeply on one area of maths, drawing in the associated pedagogy, and activities will include lesson analysis and lesson design. This programme will take place across the equivalent of four days.

The programme will be led by Rachel Main who is an experienced and practising primary teacher with expertise as an NCETM accredited Professional Development Lead and as a member of our Local Leaders of Maths Education (LLME) community.

As a Work Group, this programme encourages participants to work collaboratively to deepen their subject knowledge and develop practice through the supportive learning community. Participants will be expected to use what they learn by carrying out action research in their own school and reflecting on its impact.

"I have been able to reflect on my own practice and set areas of improvement in my own teaching. I have been able to put into practice some of the ideas I have learnt during these sessions."

"Thank you to Lindsey [our work group lead] who has been supportive in answering our questions and offering advice. It's been really helpful especially given the current climate having someone outside of school to discuss things with."

"I have a greater understanding of maths and I can help children make links through scaffolding my teaching. My own pedagogy has changed as I now see the importance of revisiting concepts all of the time and have added this into my teaching."

## What are the benefits?

Participants will:

- ✓ Plan and teach a carefully sequenced and coherent area of maths
- ✓ Appreciate the key ideas underpinning the area of maths being taught
- ✓ Understand key principles and approaches associated with teaching for mastery
- ✓ Understand approaches to assess pupils' prior learning, so that learning sequences take this into account
- ✓ Make appropriate use of representations to expose the structure of the maths being taught.

## Who can take part?

This programme is designed for primary early career teachers (those in their first or second year of teaching).

## Information for Head Teachers

Participants are required to commit to 4 days (or equivalent) of training across the academic year. Training will be a blended model with some face-to-face and some online learning sessions. There is no charge to schools as this programme is fully funded.

## More questions?

Our Deputy hub lead Lindsey Hassan will be more than happy to discuss this with you, or answer any questions that you may have. Please get in touch to arrange a meeting: [greatnorthmathshub@gmail.com](mailto:greatnorthmathshub@gmail.com)

## How do I register?



[Please express your interest](#)



[www.greatnorthmathshub.co.uk](http://www.greatnorthmathshub.co.uk)



[Mail List](#)



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## Covid-19 Recovery

Many positive lessons were learnt from online collaboration during Maths Hubs activity in 2020/21. These will be built upon in 2021/22. As the impact of the pandemic hopefully recedes, the result for our work will be a blend of face-to-face activities and frequent online collaboration.

"Everyone involved in the training has been lovely, helpful and very supportive."