

Early Years Teachers

Specialist Knowledge for the Teaching of Mathematics programme

Maths Hub Network
Collaboration Projects
23/24

NCP23-25



Fully funded by the Maths Hubs Programme so is free to participating schools.

Outline

This programme is designed to support Early Years practitioners in developing specialist knowledge for teaching mathematics, thus enabling them to understand, teach and support pupils in maths in the learning environment.

Details

What is involved?

The model for this programme is four PD days with in-school work between these days plus a short introductory session. Schools are encouraged to engage two participants in a group, where possible, to maximise learning and impact. The programme will run online to allow access across the hub region.

Participants will be supported to:

- Review and enhance opportunities to promote mathematical learning across the provision.
- Make carefully considered changes to their practice
- Observe and analyse the impact of these changes on learners (in particular, focus children)
- Reflect on the implications
- Share thinking and findings

What are the benefits?

Participants will:

- ✓ Develop small-scale action research in their learning environments
- ✓ Develop enhanced maths subject knowledge with a particular emphasis on developmental progression in the Early Years to ensure sequences of learning are cohesive
- ✓ Consider learning opportunities and pedagogical approaches across the wider provision
- ✓ Understand key elements of pattern, shape, space and measures.
- ✓ Review their practice as a result of the sessions and make carefully considered changes to practice to have an impact on pupil outcomes.

The wider context

Pattern, Shape, Space and Measures are crucial, yet often underrepresented aspects of Early Years mathematics that have been shown to a significant impact on understanding of number. This programme will consider what is effective in the learning and teaching of these areas of mathematics, with a focus on:

- Developmental progression of these concepts in EY mathematics
- What research tells us is effective in the learning and teaching of younger children
- Pedagogical approaches and how they impact on learning and teaching

Expectations of participants and their schools

Schools must be able to commit to the full programme. This involves a total of one short introductory session and four full days as well as learning environment and school-based activity. Participants will be involved in small scale action research in their learning environments and engage with professional reading. They should also be supported by their school leadership to explore outcomes from the project with other colleagues in their school. Head teachers and subject leaders are invited to a presentation session on the final day where participants will share the impact of their work and learning in the group.

Workshop details

Workshops will be online and led by Helena Palmer and Ruth Trundley

Workshop 1: Thursday 1st February 14:30 - 15:30 Introduction

Workshop 2: Thursday 8th February 09:00-15:30

Workshop 3: Thursday 14th March 09:00-15:30

Workshop 4: Wednesday 17th April 09:00-15:30

Workshop 5: Wednesday 22nd May 09:00 – 15:30

Link to registration [here](#).