Specialist Knowledge for Teaching Mathematics – Primary Teachers

Maths Hubs Network Collaborative Projects 2021/22

NCP21-26

MATHSHUBS
EAST MIDLANDS EAST

Outline

This project is designed to support primary teachers in developing specialist knowledge for teaching mathematics, thus enabling them to understand, teach and support pupils in maths in the classroom.

Details

What is involved?

The programme is based on five core primary modules:

- Policy and impact on practice
- Number sense
- Additive reasoning
- Multiplicative reasoning
- Fractions.

These core modules are each designed to be delivered over three hours. This programme will take place across the equivalent of four days.

Who can take part?

This programme is designed for teachers who would like to further develop their specialist knowledge for teaching maths. It will be particularly relevant for teachers that have moved phases or teachers that have not received maths-specific training.

What are the benefits?

Participants will:

- ✓ enhance their maths subject knowledge with an emphasis on the key structures in each mathematical area covered
- ✓ understand the key elements that form number sense, forms of addition and subtraction, forms of multiplication and division, and forms of fractions, including precise language, structures and representations
- ✓ review their practice as a result of the sessions and make specific adaptations to impact on pupil outcomes.

What is the cost?

The SKTM – Primary Teachers project is fully funded by the Maths Hubs Programme so is free to participating schools.

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 Maths Hubs work will be a blend of face-to-face activities and frequent online collaboration.

The wider context

It has long been recognised that maths teaching is enhanced when the teachers are confident about the subject matter. Seabourne's work over the period of 2004-06 found that Subject Knowledge Enhancement (SKE) courses led to 'improvements in subject knowledge, attitude, understanding and confidence'. Gibson, O'Toole, Dennison & Oliver's (2013) report on SKE courses across all subjects in which SKE is offered finds that levels of subject knowledge and confidence in the subject are dramatically enhanced on completion of SKE courses.
Maths Hubs work with a range of partners to ensure there is effective professional development of new teachers of maths in primary and secondary schools (and other maths classroom practitioners), so that they have the specialist knowledge required to support the learning of maths. This project is offered to impact on developing the subject knowledge and pedagogical knowledge for all practitioners teaching and supporting the learning of maths.

Expectations of participants and their schools

Participants and their schools must be able to commit to the full academic year's programme. This is likely to involve some face-to-face activity alongside online collaboration.

About the Hub

What is a Work Group?

Work Groups comprise of a group of schools who work on something together over the course of an academic year. Participating teachers will be guided by an experienced Work Group Lead, and will engage in intersessional tasks, trying things out in their classrooms, and feeding back to the group.

More information about the hub

At East Midlands East we are committed to supporting colleagues to become outstanding practitioners – learning from the best of local, national and international practice. We will work with colleagues to provide opportunities to engage with research, develop new practices and to share that development to make a positive impact on learners.

Work Group locations/dates

Dates and venue to be confirmed

Work Group Lead information

Emma Rowbottom, NCETM Accredited PD Lead, Sturton-Le-Steeple Primary School

Any other relevant information

To register an interest in the programme please follow the link:

Expression of Interest Form

If you have any queries contact enquiries@ememathshub.org