

Specialist Knowledge for Teaching Mathematics – Primary Teachers

Maths Hub Network
Collaborative Projects 2021/22

NCP21-26

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.

This Work Group will be a blended mix of online and face to face workshops, beginning in the Autumn term of 2021.

Details

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 is involved?

The programme is based on five core primary modules:

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

This programme will take place across the equivalent of four days (of blended face-to-face/online workshops) in the academic year, as well as classroom and school-based activities.

What is the cost?

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

*See Terms and Conditions

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.

Participants who successfully complete the Work Group will be awarded an SKTM Certificate.

All materials, lessons observed and case studies will form a comprehensive professional development package for schools to download and use to enhance other practitioners' subject knowledge.

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

Schools must be able to commit to the full academic year's programme, with senior leadership releasing the same nominated teacher(s) for a total of a blended mix of the equivalent of four days of face-to-face/online workshops and to support them in completing the gap tasks and wider staff engagement, between each workshop. The department will also support participating teachers to summarise the impact of Work Group participation as part of the professional development and Work Group evaluation.

About the Hub

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[Boolean Maths Hub](#) works with schools & colleges to support the continuous improvement of mathematics education for all students in the following local authority districts: Bath & North East Somerset, Bristol, South Gloucestershire, North Somerset and Somerset. The Maths Hubs Programme is funded by the DfE and coordinated by the National Centre for Excellence in the Teaching of Mathematics.

Information for the Headteacher/Principal - *Terms and Conditions of Booking

Schools must be able to commit to the full academic year's programme. This includes attendance and active participation in the blended mix of the equivalent of four days of face-to-face/online workshops across the academic year, as well as classroom and school-based activities. School leadership must support participants to attend all workshops and, unless there are exceptional circumstances, non-attendance and/or Work Group tasks not being completed may result in a charge to the school/college of £100.

What is a Work Group? [Click here to find out](#)

Work Group locations/dates

This Work Group will start in the autumn term. (Dates to be confirmed)

To book your place on this Work Group follow the link [HERE](#)

For further information please email booleanmathshub@clf.cabot.ac.uk