

Primary: Exploring the use of manipulatives and representations to deepen pupil understanding



OVERVIEW:

As the Teaching for Mastery approach to Mathematics becomes embedded across an increasing number of schools it is essential that class teachers are able to use a range of concrete manipulatives and pictorial representations to maximise pupil understanding.

The aim of this Work Group is to support maths leads and class teachers in developing their approach to the use of manipulatives and representations within their schools. It will link closely to the EEF Improving Mathematics in KS2 and KS3 (recommendation two) and will support participants in understanding why some manipulatives/representations are more effective for the teaching and learning of certain mathematical concepts than others.

WHO IS IT FOR?

The intended participants are schools who wish to develop their use of manipulatives and representations. Ideally, schools will have already engaged in Teaching for Mastery Development Work Groups, but this is not essential.

The Work Group is aimed at Primary colleagues but may also be suitable for Year 7 teachers.

INTENDED OUTCOMES

Participants will:

- Develop a deep understanding of how manipulatives and representations expose the structures of mathematical concepts to aid learning;
- Understand that there needs to be a clear rationale for using a particular manipulative or representation to teach a specific mathematical concept;
- Understand when to remove the use of manipulatives once independence has been achieved.
- Incorporate new manipulatives and representations into their practice, and be able to effectively evaluate the use of these and their impact on learning.

EXPECTATIONS OF PARTICIPANTS AND THEIR SCHOOLS

Work Group participants will attend three days (or equivalent) face-to-face sessions led by the Work Group Lead, and will work within their own schools to complete gap tasks.

All Work Group participants will be required to reflect and evaluate their gap tasks, and report on impact of the Work Group on their school and pupils.

WHO IS LEADING THE WORK GROUPS

This Work Group will be run by Sarah Charlton, St Faith & St Martin C of E Junior School - Primary Teaching for Mastery Lead.

FUNDING

The programme will be fully funded through the East Midlands East Maths Hub, however there will be a £15 per session fee for non-attendance to cover costs.

VENUE

St Faith and St Martin CofE Junior School
Hampton Street
Lincoln, Lincolnshire
LN1 1LW

All sessions are 1.30pm to 4.00pm

DATES/TIMES

Thursday 17th October 2019
Thursday 12th December 2019
Thursday 13th February 2020
Thursday 26th March 2020
Thursday 21st May 2020
Friday 10th July 2020

IF I'M INTERESTED, WHAT NEXT?

To reserve your place, please use the link below to our online booking system. For further information, please contact Julie Naidu, Maths Hub Coordinator, enquiries@ememathshub.org, tel: 01636 817 377.

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