

# Developing the Use of Manipulatives and Representations

If your school recognises learners cannot select the appropriate representation to reveal the mathematical relationships and structures; this training will help to implement this as a whole school priority.

This is Educator Solutions Mathematics Team response to the EEF Improving Mathematics in Key Stages Two and Three Guidance Report – recommendation 2 (November 2017).

## Course Outline

This professional development is one of a series of six twilight sessions. It is part of Teaching Mathematics, which aims to challenge the approaches to the teaching and learning of mathematics.

This training will focus on using the evidence based improvement cycle to select and use manipulatives to represent the mathematical big ideas. Delegates will take part an active role in using a variety of representations to strengthen the rationale for using them to prove mathematical thinking. Resources will be provided to share this professional development with colleagues upon return to school.

## By the end of this training participants will:-

- have explored how manipulatives and representations can help learners engage with mathematical ideas
- know how a manipulative or representation is used to achieve the deeper conceptual understanding of the Mathematics
- have developed a clear rationale for using a particular manipulative or representation to teach a specific mathematical concept
- know how to promote independence and mathematical thinking using a range of manipulatives and representations

## Phase

Primary

## Audience

Teaching Assistants  
Class Teachers  
Subject Leaders, NQTs  
Returners to Teaching  
Senior Leadership Team

## Trainer

Sarah Jay

## Date, Time & Venue

07/11/2018  
4.00 pm – 6.00 pm  
Norwich Professional  
Development Centre

## Course Ref

TLS-1118-T029

## Or

## Date, Time & Venue

08/11/2018  
4.00 pm – 6.00 pm  
College of West Anglia,  
Kings Lynn

## Course Ref

TLS-1118-T030

## Cost

£46 per delegate



**For more information and to make a booking**  
[www.educatorsolutions.org.uk](http://www.educatorsolutions.org.uk)  
or call 01603 307710

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