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| **KS1/2: ‘Raising the bar? Bar modelling to develop children’s conceptual understanding’*****Deadline: 13th October 2017*** | http://static.wixstatic.com/media/d09ff8_b4c93142c2154fed9b44f16f239ce35c.jpg_srz_389_163_75_22_0.50_1.20_0.00_jpg_srz**Cost: Free** |
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| **This opportunity is open to a maximum of ten schools with two participants from each school, ideally the subject leader and another teacher.**In 2013, the NCETM reported: ‘When solving word problems, it is often not the calculation that children can’t do – rather they are not sure which calculation they need to do.’By joining this work group, participants will develop:- Understanding about the potential of the bar model representation as a strategy to help children strengthen their ability to visualise, build conceptual understanding and solve problems. - Knowledge of progression in use of the bar model and the skill of using secure pedagogies, for example, use of practical equipment. - Understanding of strategies for more widely developing use of the bar model across a school.Content related to the work group has been updated during the summer of 2017. As a result of completing a ‘hands-on’ gap task, which will involve trialing use of the bar model alongside children, participants will become prepared to develop an ‘introduction to use of the bar model’ resource. This document will be collated and support the further rolling out of bar modelling as a teaching tool across schools.**Participants will…*** Attend two half-day work group meetings.
* Complete a gap task between the sessions.

**Venues:** * Bar Modelling is being offered at two different venues; one in Milton Keynes and one in Leighton Buzzard, dates are on the application form below. Please indicate clearly which course you would like to attend.

**Enigma Maths Hub will…*** Fund the course.
* Provide a starter pack of Cuisenaire for each participant to use back at school.
* Disseminate collaborative resources.
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**Work group leader: Nathan Crook**Driven by his passion for helping to ensure that all children access learning to the full, Nathan has supported schools across Oxfordshire and other counties in delivering high quality teaching and learning, as well as working with organisations to lead nationally accredited Continuing Professional Development (CPD) for teachers. Nathan qualified as a Maths Specialist Teacher (MaST), which also led to him becoming part of the National College for Teaching and Leadership’s ‘small schools making an impact’ programme. Since then, Nathan has become part of the Executive of the National Association of Mathematics Advisers, which ensures that he continues to be up-to-date with agendas across the world of maths.  | .  |

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| **‘Raising the bar? Bar modelling to develop children’s conceptual understanding’****For bookings please fill in this application form and send by email or fax to:****Lucie James, before 13th October 2017****Email: enigmamathshub@denbigh.net****The Enigma Maths Hub, Denbigh School, Milton Keynes, MK5 6EX****Call: 01908 330527 or 01908 330690 Fax: 01908 505279** | http://static.wixstatic.com/media/d09ff8_b4c93142c2154fed9b44f16f239ce35c.jpg_srz_389_163_75_22_0.50_1.20_0.00_jpg_srz |

**Please fill in the form below. There are limited places for this work group.**

**Application form:**

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| **First applicant**  |  |
| **Role:** |  |
| **Email** |  |

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| **Second applicant** |  |
| **Role:** |  |
| **Email:** |  |

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| **School:** |  |
| **School URN** |  |

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| **School Address:** |  |

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| **Age Group *(please indicate)*** |  **EYFS KS1 KS2 KS3 KS4 KS5/Post 16** |
| **Venue** ***(please indicate)*** |  **Milton Keynes Leighton Buzzard**  |

Milton Keynes Venue

Brooklands Farm School, Countess Way, Broughton, Milton Keynes, MK10 7HN.

Leighton Buzzard Venue

Greenleas School, Derwent Road, Linslade, Leighton Buzzard, LU7 2AB.

**Session 1 will be on Wednesday 18th October 2017 between 9.30am and 12.00pm**

**Session 2 will be on Wednesday 22nd November 2017 between 9.30am and 12.00pm**

**Session 1 will be on Thursday 19th October 2017 between 9.30am and 12.00pm**

**Session 2 will be on Thursday 23rd November 2017 between 9.30am and 12.00pm**