



EAST MIDLANDS EAST MATHS HUB PRIMARY MATHS CONFERENCE

JOIN US!

FRIDAY 26TH JUNE 2020
9.00AM TO 4.15PM

£25 PP

SOUTHWELL RACECOURSE
OCCUPATION LANE, ROLLESTON, NOTTS, NG25 0TS



PRIMARY MATHS CONFERENCE AGENDA

09:00 - 09:30	Welcome and registration	
09:30 - 09:40	Introduction and overview of the conference	Jayne Ireland - EME Maths Hub
09:40 - 10:30	Keynote Speaker - Reasoning: The heart of mathematics?	Mike Askew
10:30 - 10:55	Break	
11:00 - 11:45	Workshop for All - Reasoning as a habit of mind	Mike Askew
12:00 - 13:00	Workshops - Session 1	
	<ul style="list-style-type: none"> Developing the subject knowledge of primary colleagues Exploring strategies to support SEND pupils in maths Exploring effective use of mastery professional development materials Observations from the Shanghai exchange Exploring models of intervention in the primary classroom How a positive maths identity can support learning in the Early Years 	Emma Rowbottom Leanne Firth Sarah Charlton/Emma Patman Liam Bielby/Jenny Flavell Ruth Spencer Jayne Carter
13:00 - 14:00	Lunch - Marketplace	
14:00 - 14:45	Workshops - Session 2	
	<ul style="list-style-type: none"> Developing the subject knowledge of primary colleagues Exploring strategies to support SEND pupils in maths Exploring effective use of mastery professional development materials A year of maths in EYFS How textbooks can be used to support lesson planning Preparing students for the transition to secondary - multiplicative reasoning focus 	Emma Rowbottom Leanne Firth Sarah Charlton/Emma Patman Kirsty Stewart Claire Fraser Georgie Goldstein
15:00 - 15:45	Workshops - Session 3	
	<ul style="list-style-type: none"> A year of maths in EYFS How textbooks can be used to support lesson planning Preparing students for the transition to secondary - multiplicative reasoning focus Observations from the Shanghai exchange Exploring models of intervention in the primary classroom How a positive maths identity can support learning in the Early Years 	Kirsty Stewart Claire Fraser Georgie Goldstein Liam Bielby/Jenny Flavell Ruth Spencer Jayne Carter
16:00 - 16:15	Future opportunities and reflections	Jayne Ireland - EME Maths Hub Sarah Charlton
16:15	Close	



PRIMARY MATHS CONFERENCE SPEAKERS & WORKSHOPS

Keynote Speaker and Workshop - Mike Askew



Mike Askew is Distinguished Professor of Mathematics Education at the University of Witwatersrand, Johannesburg, having previously held Professorships at King's College, University of London and Monash University, Melbourne. Originally a primary school teacher, Mike moved into teacher education and developed his research interests. He has directed many research projects including the influential 'Effective Teachers of Numeracy in Primary Schools' and was deputy director of the five-year Leverhulme Numeracy Research Programme. His books include: *Transforming Primary Mathematics*, *A Practical Guide to Transforming Primary Mathematics* and the popular *Maths for Mums and Dads* (with Rob Eastaway). Mike believes that mathematical activity can, and should, be engaging and enjoyable for all learners and that the majority of learners can come to see themselves as mathematicians, in the sense of having confidence in their ability to do maths. For the year from April 2018 Mike was pleased to be the President of the UK's Mathematical Association.

Keynote - Reasoning: The heart of mathematics?

Reasoning is at the heart of both learning and doing mathematics. But evidence points to reasoning not getting as much attention as it might in mathematics lessons. In this keynote Mike will explore why it is important that all children get to engage in mathematical reasoning, and why reasoning is complementary to, but not directly dependent upon, fluency and problem solving. We will explore practical strategies for bringing reasoning into the heart of all mathematics teaching, and making mathematics learning engaging, challenging and productive.

Questions addressed will include: *What does reasoning really look like and involve? Can young learners reason mathematically, or do they have to learn 'the basics' first? What is the relationship between reasoning and both problem solving and fluency?*

Workshop - Reasoning as a habit of mind

Habits develop when we consistently engage in actions, little and often. If we want pupils to be habitual mathematical reasoners, then we must give them frequent opportunities to do so. This workshop will explore a number of 5- to 10- minute activities that can engage pupils in regular opportunities to reason about mathematics.

Further Workshops

Developing the subject knowledge of primary colleagues

Emma Rowbottom is a KS2 teacher at Sturton-Le-Steeple Primary School in Nottinghamshire. Emma is an experienced KS2 teacher of 10 years, Numeracy Coordinator, Workgroup Lead for the NCETM and leads a development group for Numeracy Leaders.

Emma has been leading the subject knowledge enhancement for the teaching of mathematics for the past year and a half. This is specifically targeted at teachers and leaders who wish to further explore the fundamental mathematical concepts, representations and knowledge needed to teach maths effectively. This workshop will explore elements of the Work Group programme this year and share some strategies/activities used to enhance classroom teaching.



PRIMARY MATHS CONFERENCE SPEAKERS & WORKSHOPS

Exploring strategies to support SEND pupils in maths

Leanne Firth is an experienced SEND teacher and Maths Lead for the Lincolnshire Wolds Federation and is running this year's Developing SEND Pupils' Understanding of Mathematics Innovation Work Group.

As the teaching for mastery approach to mathematics becomes more embedded in primary and secondary schools across the East Midlands East Maths Hub region, colleagues in both special and mainstream schools require a consistent understanding of how to best support SEND pupils with their mathematical understanding. This workshop will look at the findings and lessons learnt from the Work Group this year and focus on strategies used to support students.

Observations from the Shanghai exchange

Two of East Midlands East Maths Hub Primary Mastery Specialists were selected to take part in the Maths Hub England–China Primary exchange - Liam Bielby from Bardney C of E & Methodist Primary School and Jenny Flavell from Heath Primary School. Liam & Jenny would like to share with you their thoughts on the programme, lessons learnt and their experience of Shanghai!

Exploring effective use of mastery professional development materials

Sarah Charlton is an Assistant Head Teacher at St Faith & St Martin C of E Junior School in Lincoln and also one of our Assistant Maths Hub Leads (Primary) and Place-Based Assistant Maths Hub Lead, responsible for the coordination and support of our Teaching for Mastery Work Group Programme.

Emma Patman is Assistant Director of the Primary Maths Team at the NCETM, heavily involved in developing the Mastery Readiness programme, Intervention in a Mastery Context, Planning opportunities for Greater Depth as well as leading the Professional Development Lead Accreditation programme for primary mastery specialists

This workshop will provide an introduction to and exploration of the NCETM's Primary Mastery Professional Development materials. We will look at how the use of these materials can support teachers to enhance their subject knowledge to help improve the teaching of mathematics.

Exploring models of intervention in the primary classroom

Ruth Spencer is a Specialist Leader in Education from Lowe's Wong Junior School and is an experienced teaching for mastery practitioner. This is the second year Ruth has run the Interventions in a Mastery Context Work Group exploring two models of intervention: Pre-teaching and Same Day. The Work Group enables participants to run a research project in their own classroom to trial one of these models and assess its impact on the children's attainment, progress and views of themselves as mathematicians. Participants are then encouraged to disseminate their findings to other teachers in their school and, if their project has been successful, start to implement their chosen model of intervention across the rest of their setting.

This workshop will highlight how the current Intervention Work Group runs, explain the models of intervention we look at, how we collect data and assist participants in completing a school audit.



PRIMARY MATHS CONFERENCE SPEAKERS & WORKSHOPS

How a positive maths identity can support learning in the Early Years

Jayne Carter is an Independent Educational Consultant and the Director of Ignite Education. Jayne has worked closely with the Maths Hub leading and co-leading many Early Years Work Groups.

There is an increased awareness within current academic research which discusses the importance of developing a positive mind-set for learning; particularly how this can affect children's ongoing mathematical journey. The Work Group has explored the research behind this while reflecting and discussing current practice with schools and this workshop will highlight the outcomes of that Work Group and any key messages.

A year of maths in EYFS

Kirsty Stewart is an experienced foundation teacher at St Botolph's Primary School in Sleaford. She has been involved in numerous Work Groups with the East Midlands East Maths Hub and is passionate about Early Years.

This workshop will look at a year of maths in EYFS and how this supports students in their transition to Year 1 mathematics.

How textbooks can be used to support lesson planning

Claire Fraser is an Assistant Maths Hub Lead (Primary), Primary Mastery Specialist, and maths subject leader at Welton St Mary's Primary Academy. Claire has supported a number of schools at the beginning of their teaching for mastery journey and with the introduction and ongoing use of textbooks including Power Maths and Maths No Problem.

This workshop will look at how textbooks can be used most effectively to support lesson design and planning.

Preparing students for the transition to secondary - multiplicative reasoning focus

Georgie Goldstein is a secondary teacher of maths at the Minster School and an Assistant Maths Hub Lead responsible for leading the Year 5 – Year 8 Continuity Work Group.

This Work Group encourages teachers from different phases to work together, to improve consistency of mathematical provision between Key Stages 2 and 3. This workshop will look at some of the key outcomes from the Work Group, and give participants the opportunity and understand more about who to prepare students for the transition to Secondary school.