



East Midlands East | East Midlands West

SECONDARY MATHS CONFERENCE

SUPPORTING SECONDARY SCHOOLS

TUESDAY 3RD JULY 2018

Trent Vineyard, Lenton Lane,
Nottingham



Secondary Maths Conference – Supporting Secondary Schools

We are delighted to invite you to our joint East Midlands East and East Midlands West Maths Secondary Maths Conference, on Tuesday 3rd July 2018.

The day will include a keynote address by Sean Harford, Ofsted's National Director for Education, alongside a variety of workshops designed with the intention of supporting developments in mathematics teaching across the region.

The conference is for Maths Curriculum Team Leaders or seconds in department.

Details of the event are as follows:

Venue: Trent Vineyard, Lenton Lane, Nottingham

Cost: £30 for the Maths CTL or £50 for the Maths CTL and one other

Lunch and refreshments are included for all delegates

How to book: Bookwhen <https://bookwhen.com/mtsa/e/ev-sano-20180703093000>

Aim

To support development in Secondary School Maths departments.

Opportunities and resources will be provided for discussion between Heads of Department and Senior Leadership line managers focused around the following areas:

- Ofsted expectations
- Guidance on assessment and feedback
- Implementing Teaching for Mastery
- Technology and the new A-Level
- Moving a Maths Department Forward
- Opportunities available through Maths Hubs
- Core Maths
- Secondary Bar Modelling
- The Language of Mastery at KS3



AGENDA

09:30 – 10:00	Registration and workshop choice	
10:00 – 10:45	Introduction and Aims of the day Keynote Speaker Ofsted update, including curriculum	Ryan Metters/Jayne Ireland Sean Harford, Ofsted
10:45 – 12:00	Marking and Feedback Workshop	Carol Knights, NCETM
12:00 – 12:45	Morning Workshop Technology and the new A-Level Moving a Maths Department Forward Thinking of teaching Core Maths? Using bar modelling to support teaching in KS3/4 The Language of Mastery at KS3	Tom Bennison Adie Bett/Steve Lyndon Keely Platten Fran Neep Dave Berry
12:45 – 13:00	Reflections and Writing of Questions	
13:00 – 13:45	Lunch and Networking	
13:45 – 14:30	Afternoon Workshop Technology and the new A-Level Moving a Maths Department Forward Thinking of teaching Core Maths? Using bar modelling to support teaching in KS3/4 The Language of Mastery at KS3	Tom Bennison Adie Bett/Steve Lyndon Keely Platten Fran Neep Dave Berry
14:30 – 15.15	Our Mastery Journey	Martin Kyle Lorraine Tonks
15:15 - 15:30	Break and Writing of Questions	
15:30 – 16:00	Information and Opportunities across Maths Hubs Q & A	Jayne Ireland/Ryan Metters
16:00	Evaluation and Close	

SPEAKERS & WORKSHOPS

Keynote Speaker - Sean Harford (Ofsted National Director, Education)

Sean Harford became National Director, Education in September 2015. Sean was appointed Her Majesty's Inspector in 2003. Since joining Ofsted he has worked in school improvement, school inspection policy and organisational restructuring. His previous post in Ofsted was National Director, Schools. Before joining Ofsted, Sean was a teacher and a successful senior leader in a secondary school in the East of England, as well as associate adviser for a local authority.



Sean will give the keynote talk for the day with a focus on Ofsted update including curriculum.

Workshop: Marking and Feedback - Carol Knights, NCETM

Carol is currently Director for Secondary Mathematics at the NCETM. Prior to this Carol taught in state schools for 15 years, with roles as an Advanced Skills Teacher and Head of Department plus school-wide responsibilities. She then worked for 6 years as a Principal Lecturer in Mathematics Education before joining MEI (Mathematics in Education and Industry).



Carol will be using this session to focus on what lessons we can learn from analysis of the results from the new 9 – 1 GCSE. Undoubtedly the examinations included questions with higher challenge than in previous years. Students were expected to be able to analyse quite complex questions and use their problem solving skills to a greater extent. Question analysis from the Edexcel papers for example showed that for particular questions a small proportion of students managed to achieve any marks at all. Carol will use this analysis to draw some conclusions and offer suggestions as to how as leaders of maths departments can support teachers to ensure students are equipped with the skills necessary to tackle this new style of GCSE.

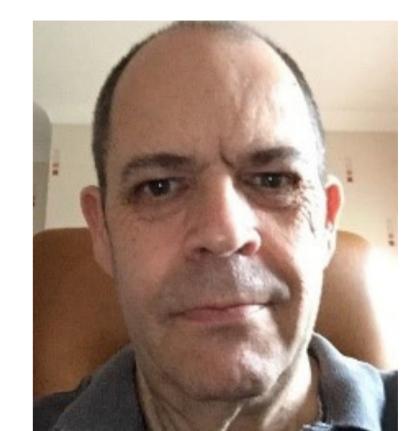
Workshop: Easy Wins with Technology for A-Level Mathematics - Dr Tom Bennison

Following completion of a PhD in Applied Mathematics, Tom Bennison is pursuing a career in teaching and is now the Level 3 Lead for the East Midlands West Maths Hub. With experience of teaching undergraduates, postgraduates and school students he is keen to support other teachers deliver A-Level Mathematics. He views the introduction of the new syllabus as an opportunity to expose students to mathematics; not just past exam questions. He is a proponent of technology in the classroom and advocates the use of interactive activities alongside the more traditional exercises to develop understanding and intuition amongst students. He is one of the editors for the Tarquin Group A-Level series.



In this session we will explore some easy “wins with technology”. These are simple uses of technology that can enhance A-Level teaching, allowing the use of multiple-representations to encourage intuition amongst students. If attending this session please bring a tablet or a laptop as we shall be using Desmos and possibly Geogebra and Excel.

SPEAKERS & WORKSHOPS



Workshop: Moving a Maths Department Forward - Adie Bett & Steve Lyndon

Adie is currently Assistant Head Teacher at Manor Academy in Mansfield Woodhouse.

Steve Lyndon is Head of the Maths Faculty.

Adie and Steve will share the context The Manor Academy and the maths faculty as it was three years ago. They will look at the challenges faced at the time and after the Ofsted inspection which placed the academy in Special Measures in 2016. The actions and outcomes which have transformed the faculty over the last three years will be shared and you will be encouraged to share your own experiences and good practice.

Workshop: Bar Modelling – how this key representation can be used to support learning at KS3/4 - Fran Neep

Fran is currently a Secondary Mastery Specialist working at The Minster School. As primary school pupils become more fluent with using visual representations to support their learning, Bar Modelling is proving to be a powerful tool to help students across a variety of topics. Fran's session will provide an insight into how these representations can be consolidated at KS3/4 and extended to concepts such as simultaneous equations.

Workshop: The Language of Mastery at KS3 - Dave Berry

Dave is Secondary Maths Lead for the East Midlands West Maths Hub. Graduating from Leicester Polytechnic with a first class honours degree in mathematics Dave then embarked on a 34 year long career teaching mathematics, serving 24 years as a Senior Leader including 8 years as a Principal. He developed the HSBC sponsored first ever online GCSE Mathematics course whilst serving at Thomas Telford School, the hugely successful and influential City Technology College in Shropshire, and contributed, through meeting with Professor Adrian Smith, to the Making Mathematics Count Report during that same period. During the last three years David has worked as Senior Director of Mathematics for Delta Academies Trust, and in this role has written their KS3 Mastery Programme including a complete suite of resources for Year 7 and Year 8. Additionally David has served as a Lead Assessment Writer for AQA and resource developer for Pearson, both concerning the new linear AS and A levels, encompassing both Maths and Further Maths.

Children are arriving at secondary schools across the nation equipped with a new technically correct language to describe their understanding of even the most basic principles of mathematics.

How are you, as secondary teachers of mathematics capitalising on this?

From subtrahends to distributive laws the implication of KS3 Maths Mastery requires us all, specialist and non-specialists alike, to recognise the new language our primary colleagues have developed in our learners and make sure we make the best use of it. This session explores key language we must now learn or re-learn to use at KS3 to build on the great work now being done by our pre-secondary colleagues.

SPEAKERS & WORKSHOPS

Workshop: Thinking of Teaching Core Maths? - Keely Platten

Keely is currently our Core Maths and Level 3 Lead and works at Bluecoat Aspley Academy.

With the government announcing funding for every additional student taking Core Maths at Level 3 department leaders may be considering introducing this new qualification to their Post-16 offer. Keely has been involved in Core Maths from the outset, with Bluecoat Aspley Academy being an Early Adopter of this course. Keely will provide information about the qualification and share her experiences.



Workshop: Our Mastery Journey – Martin Kyle

Martin Kyle is Headteacher at St Faith & St Martin Church of England Junior School

Martin has been Head Teacher for just over three years. St Faith & Martin serves the community of Carholme in Lincolnshire. His school introduced Maths Mastery three years ago and staff work closely with the East Midlands East Maths Hub to support and deliver CPD events. In this time the school has moved from Requires Improvement to Good and have seen their maths results move from below to above the national level. “Teachers have become increasingly skilled in teaching numeracy since the last inspection. They have received effective support in order to develop their understanding of recent changes to the teaching of mathematics.” – Ofsted 2015. Martin particularly references the networks and CPD opportunities for his own and other Lincolnshire schools that continue to support the mastery journey.



Workshop: Our Mastery Journey – Lorraine Tonks

Lorraine Tonks is Principal at Chetwynd Primary Academy.

Lorraine has been Principal at Chetwynd Primary Academy for just over four years. Chetwynd serves the community of Toton in Nottinghamshire including the nearby local army barracks. Her school introduced Maths Mastery three years ago and work closely with the East Midlands West Maths Hub to deliver CPD events. Due to the success of the mastery approach in Maths, they have also adopted this approach in other curriculum subjects.

