



News from our Maths Hub Lead, Abha Miller:

Dear All,

A huge welcome to all reading this first BBO newsletter for 2020 –2021. I am so proud of all our Mastery Specialists and Work Group Leads who have provided ongoing training and support throughout the lockdown period and beyond. It has been very impressive at how people have pulled together and kept going. The new term has brought about many changes to how we deliver lessons and we have had to become very flexible in our approach to curriculum, assessment and catch up for all students especially students from disadvantaged backgrounds . With this in mind much of our current training has been adapted and will start online to allow teachers the time and space they need to reflect. We hope that you will continue to be part of our growing mathematical community and be able to share your experiences of teaching through lockdown. We have few opportunities left for Primary schools to join development workgroups and would welcome applications for the SLE school support programme.(see below) .

I hope manage to have a good rest over half –term and look forward to being in back in touch in November .

Stay well and safe , *Abha Miller*

SLE School Improvement Support Programme 2020/2021



- Open to designated mathematics SLEs attached to a Teaching School and will benefit those who have previous experience of developing leadership capacity in schools or who are new to the role.
- Funded by the Maths Hubs Programme
- Applications close 9.00am Monday 19 October
- Apply now via www.bbomathshub.org.uk

We are very busy planning our work groups for 2020/2021. See pages 7-9 for details

News from our Primary Lead, Jennie Forde

Welcome back!

New for 2020/21: Sustaining Mastery Workgroups

Introducing teaching for mastery to a primary school takes a couple of years at least. Ensuring that it becomes a routine part of school life requires ongoing attention. That is why all Maths Hubs are running what are called Primary Teaching for Mastery Sustaining Work Groups in 2020/21.



If you have worked with the hub before on the teaching for mastery programme and you are not currently doing the Developing or Embedding phase, then this is the Work Group for you. The aim is to build on work done previously with a focus on working collaboratively within and across schools. As a result, schools will continue to use mastery approaches consistently and improve learning in maths by strengthening leadership, refining systems and designing curriculum and lessons which allow all children to achieve. It does not matter what stage you are at – even if you consider yourself to be in a strong position, we are urging all schools to take part.

Key Information:

- Your participant teachers take part in six workgroups throughout the academic year.
- In addition, we will be offering twilight sessions and inviting other teachers from your school to join.
- It is completely **FREE** to take part

We are in the process of finalising groups right now, if you would like to take part then please sign and send the attached statement of commitment form here (add link) back to info@bbomathshub.org.uk - we would love to have your school join this new and exciting workgroup.

DfE Guidance Document – Teaching Mathematics in Primary Schools

The primary guidance document, Teaching Mathematics in Primary Schools was released in the late summer term. The publication aims to bring greater coherence to the national curriculum by exposing core concepts and demonstrating progression from year 1 to year 6. It summarises the most important knowledge and understanding within each year group and important connections between these mathematical topics. Although the document was never intended with Covid-19 in mind, the Maths Hub Network feel this will be an extremely important document to consider when planning for recovery.



The BBO primary team were delighted to welcome Dr Debbie Morgan, Primary Director NCETM and lead author of the document to explain the rationale behind the document and how it might be used at two very popular webinars back in July. Since then, the primary team at NCETM have been incredibly busy producing a range of materials to support you with prioritising key areas of the curriculum. These include Powerpoint materials and guidance for each of the 79 ready to progress criteria from the document. In addition, the NCETM have produced a video and ready to use training materials for introducing this document to your staff.

We will be using this document and associated resources to plan lots of the content of our workgroups this year. Have a look at the new look NCETM website to find useful guidance and resources to support with this document. **Jennie Forde, Primary Lead**

News from our Secondary Lead, Jo Walker

I would like to give you a big well done from the BBO Maths Hub for all the work that you have put in to keep schools going over the last few months and for the work you are doing this term to support students as we all get to grips with our new normal.



We had many applications last academic year to join our Developing Mastery Work Groups so unfortunately these are already full and we do not have further capacity to expand them. However, we are already generating an expression of interest list for schools who would like to join this group next academic year and develop a mastery approach to teaching maths in their school. If you would like to be added to this list please do e-mail me (details below) so I can ensure that we contact you in the next recruitment window.

If you would like to find out more about what Teaching for Mastery is and what we at BBO do to help schools develop this way of teaching then please do contact me. I am happy to visit schools (online or in person when we are allowed) to discuss what we do or deliver some training to give teachers a taste of what the 5 big ideas are all about. I can also come out to work with a group of teachers from different schools as part of an INSET Day. To find out more about Maths Hubs please visit <https://www.ncetm.org.uk/> and <https://bbomathshub.org.uk/>.

This year we will be running several different work groups around the Maths Hub area, all will start as online Continuous Professional Development (CPD) and will then include some face to face meetings when conditions permit. Our leads are all NCETM accredited Professional Development (PD) Leads and the feedback from last academic year has been very positive, with the participating teachers using much of what they learned and developed in their teaching. We will be advertising these programmes in October and November so please do look out for the next Newsletter and our e-mails, twitter and website for further information. (Links to these can be found at the bottom of the Newsletter). We are already advertising some work groups so please visit the website to see what we are offering.

We are currently advertising two work groups :

- Mathematical Thinking is a group that looks at students abilities to think mathematically and problem solve and how to develop these skills in our students.
- Year 5 to 8 Continuity is a group that looks as teaching approaches thought-out these years and aims to get together both secondary and primary schools in an area so that they can develop practices across the phases to ease transition in mathematics. We are currently aiming to run two groups, one centred around Didcot and Wantage, the second around Witney.

To find out more and to book please visit www.bbomathshub.org.uk

We are also hoping to run two other groups :

- Effective use of AFL and Feedback online to develop a deep understanding of mathematics
- Teaching mixed attainment maths in secondary schools using mastery approaches

There will be more about these in the next Newsletter. **Best wishes, Jo Walker**

Primary Mastery Readiness, Gill Knight

Over the past 5 years, thousands of schools across England have worked with trained mastery specialists from their local maths hub to introduce mastery approaches to teaching across their school. But we all know that leading sustained change is hard, and some schools face greater challenges than others.

This is the third year that the NCETM will run a nationwide Mastery Readiness programme, supporting schools as they prepare to introduce teaching for mastery. A team of experienced maths and school improvement specialists will be supporting schools as they start their mastery journey.

Feedback from teachers who took part last year repeatedly talked about how they had been enthused and inspired to try new ideas and supported to lead change across their school. Best of all, the comprehensive programme of professional development workshops and bespoke school support visits is provided completely **free of charge**.

If you would like to know more about the Mastery Readiness programme and find out if it would be the right next step for your school, please visit <https://www.ncetm.org.uk/maths-hubs-projects/mastery-readiness/> or <https://bbomathshub.org.uk/primary-mastery-work-groups/> or contact info@bbomathshub.org.uk for more details. Our Readiness team would be very happy to talk to you!

TEACHING FOR MASTERY

We still have a few places available for primary schools to join either a Readiness or Development Work Group in 2020/2021. Applications close on Friday 16 October. Email us at info@bbomathshub.org.uk for further information and an application form.

Not sure which is the right path for you? Contact us and we will put you in touch with one of our Mastery Specialists.

Testimonial from one of our Primary Mastery Specialists:
“Last year (before I started my Specialist Training) I participated in a Teaching for Mastery Work Group with the BBO Maths Hub and I can honestly say it was one of the best CPD opportunities I have had for developing my own teaching and for leading maths across our school. Next academic year, in my role as a Primary Mastery Specialist I will be leading a Work Group on behalf of the BBO Hub and it would be great to work with more local schools.”

Teaching for Mastery is a Department of Education initiative which started in 2016, to develop Maths teaching and learning in England. **The aim is that all schools in England will eventually be teaching using this methodology.** Schools that have already been working with mastery report:

- a higher level of participation in lessons;
- an increased ability to explain reasoning mathematically;
- a more positive mind-set towards mathematics;
- greater understanding of the links in mathematics
- increased ability and confidence with problem solving.

News from our Level 3 Lead, Lesley Swarbrick



WELCOME BACK!!!!

We are running two Level 3 Work Groups this year: Developing A Level Pedagogy and Developing Core Maths Pedagogy

Developing A Level Pedagogy

This project, which now incorporates the old Embedding Technology Work Group, provides national support for the effective development of pedagogy in the teaching of A level Mathematics to enhance the quality of teaching and the conceptual understanding of students. Its aim is to develop and sustain regional communities of practice involving collaboration between teachers. The focus is on developing pedagogy in A level Maths teaching, and developing participants as leaders of A level teaching professional development in their own school or college. Participants will understand the purpose of the overarching themes and their impact on teaching and learning, including use of technology, and be confident to teach aspects of the content (particularly mechanics and statistics). They will plan sequences of lessons which meet the requirements of the A level, including addressing the overarching themes, and support colleagues in their own school/college in embedding themes from the Work Group.

Chris Kirkham, an experienced A level teacher from Larkmead School in Abingdon, will be leading the Group online at least until January, and possibly a blend of online and Face to Face when circumstances allow. Chris is planning 5 twilight sessions, dates in November, January/February, March/April, and May/June tbc. In between the sessions participants should expect to spend time on pre-tasks and gap tasks, for discussion at the meetings.

Developing Core Maths Pedagogy

The Work Group has changed its name from Supporting Core Maths, but is essentially the same. This Work Group gives teachers opportunities – through collaboration and experimentation – to develop improved teaching approaches that support the open-ended problem-solving skills Core Maths students need, and share these with departmental colleagues. Participant departments will support the role of Core Maths in promoting contextualised problem-solving and links to teaching in other subject areas. Participants will be able to identify and make effective use of existing Core Maths resources.

I will lead the Group online at least until January, and possibly a blend of online and Face to Face when circumstances allow. I am planning 5 sessions alternating between Tuesdays and Thursdays, 1st December, 4th February, 23rd March, 29th April, and 25th May, from 4.30pm to 6pm. In between the sessions participants should expect to spend time on pre-tasks and gap tasks, for discussion at the meetings.

For more information on either Work Group please contact me on les.swarbrick@gmail.com

News from our Level 3 Lead, Lesley Swarbrick continued...

Teachers' network meetings (run in conjunction with the AMSP)



There are three networks which run in the BBO region:

Windsor and Slough

Buckinghamshire (Making Them Think!)

Oxfordshire (Coffee and Pi)

Slough and Windsor

The next meeting is online on Tuesday 24th November from 4pm to 5.30pm. Focus: **A Level Mechanics**: topic tbc. For more information contact nbasra@uptoncourtgrammar.org.uk or yvonne.scott@amsp.org.uk

Buckinghamshire (and Oxfordshire)

The next meeting is online on Thursday 12th November at 4.30pm. Focus: **Simple Mechanics Practicals**. For information and to sign up go to <https://amsp.org.uk/events/details/7824>

Oxfordshire (and Buckinghamshire)

The next meeting is online on Tuesday 17th November at 4.30pm. We will be looking at **Large Data Sets** with Valerija Peles, and Jess Barnecutt and Josh will talk about their very popular Maths of Migration. This is for teachers who want their delivery of statistics to be real and exciting, with materials that have been road-tested. For more information and to sign up go to <https://amsp.org.uk/events/details/7822>

Please note that you will need to sign up to a network meeting in order to receive the meeting link.

You can contact me at any time on les.swarbrick@gmail.com

Lesley Swarbrick

Level 3 Lead

We are very busy planning our work groups for 2020/2021 and are delighted that we will be offering the following work groups this year.

Please note that due to the ongoing uncertainty over Covid-19, all work groups will be run remotely until Christmas.

You can register your interest in any of the groups via www.bbomathshub.org.uk. **All of our Work Groups are free.**

EYFS Work Groups

- **Building Firm Mathematical Foundations in Reception (EYFS)**

The intention of this work group is to support a whole-school dialogue and consistency in message as to how best practice in EY feeds into the whole school Teaching for Mastery provision, ensuring good practise in the early learning of maths.

We will be offering 3 cohorts of this Work Group and they will be led by Nathan Crook and Joe Burbank

Cohort 1: 25 Nov + 13 Jan (am) + 13 Jan (pm) + 24 Feb—Wednesday [book](#)

Cohort 2: 11 Jan + 8 Feb (am) + 8 Feb (pm) + 29 Mar—Monday [\(register interest\)](#)

Cohort 3: 26 Mar + 7 May (am) + 7 May (pm) + 28 May—Friday [\(register interest\)](#)

- **Specialist Knowledge for Teaching Mathematics (SKTM) for Early Years Teachers**

In this project for **Early Years** Teachers will develop mathematical subject knowledge in conjunction with understanding the pedagogy that underpins the teaching of it. Understanding of mathematical structures will be explored so participants gain a detailed understanding of how children learn early mathematical concepts.

We will be offering 2 work groups, based around 4 on line sessions, both being led by Joe Burbank.

Cohort 1: 27 Jan + 24 Feb + 17 Mar + 28 Apr [\(register interest\)](#)

Cohort 2: 10 Mar + 19 May + 9 Jun + 12 Jun (register interest)

• **Specialist Knowledge for Teaching Mathematics (SKTM) for Primary Teachers**

Work Groups in this project for **Primary Teachers** will develop mathematical subject knowledge in conjunction with understanding the pedagogy that underpins the teaching of it. Understanding of mathematical structures will be explored so participants gain a detailed understanding of how children learn early mathematical concepts.

We will be offering 4 work groups, based around 4 on line sessions led by Nathan Crook and Rachael Odeniyi

- Cohort 1:** 14 Dec + 7 Jan + 22 Feb + 18 March [book](#)
Cohort 2: 3 Mar + 31 Mar + 28 Apr + 19 May (Wednesdays)
Cohort 3: 29 Apr + 13 May + 7 Jun + 21 Jun (Thursdays)
Cohort 4: TBA

• **Specialist Knowledge for Teaching Mathematics (SKTM) for TA's**

Work Groups in this project for **Teaching Assistants** will develop mathematical subject knowledge in conjunction with understanding the pedagogy that underpins the teaching of it. Understanding of mathematical structures will be explored so participants gain a detailed understanding of how children learn early mathematical concepts.

We will be offering 2 work groups, led by Dawn Butler. Dates TBA (register interest)

Primary & Secondary Work Group

• **Yr5-8 Continuity Work Group**

Teachers from different phases will work together in this Work Group, to improve communication between Key Stages 2 and 3. Participants in this project will take **multiplicative reasoning** as the focus for their work and develop a consistent approach to it through discussion, joint lesson design and delivery, observation and the development of documentation to support continuity.

We will be running two cohorts of these work groups, both led by Lucy Browne

- Witney: 19 Jan + 9 Mar + 11 May 4.00pm—5.30pm [Book](#)
 Wantage / Didcot: 3 Nov + 20 Jan + 10 Mar 4.00pm—5.30pm [Book](#)

Mathematical Thinking for GCSE

Teachers or departments keen to address the **reasoning and problem-solving** challenges of the mathematics curriculum and its assessment at GCSE are encouraged to take part in this project. This work group will explore professional development activities focusing on practical and accessible classroom-based approaches. The activities themselves also offer a model for wider departmental engagement with professional development processes, and hence could provide the basis of an effective departmental improvement programme in this area.

We will be running one cohort of this work group in the **Wycombe area**, led by Dr Audrey Curnock

Dates: 11 Jan + 28 Jan + 16 Mar + 7 May, 4.00pm—5.30pm [Book](#)

Developing Core Maths Pedagogy

This Work Group gives teachers opportunities – through collaboration and experimentation – to develop improved teaching approaches that support the open-ended problem-solving skills Core Maths students need, and share these with departmental colleagues. Participant departments will support the role of Core Maths in promoting contextualised problem-solving and links to teaching in other subject areas. Participants will be able to identify and make effective use of existing Core Maths resources. This project, is run collaboratively by the Maths Hubs Network and the Advanced Mathematics Support Programme (AMSP).

We will be running one cohort of this work group led by Lesley Swarbrick

Dates: 1 Dec + 4 Feb + 23 Mar + 29 Apr + 25 May, 4.30pm—6.30pm [Book](#)

Developing Pedagogy in A Level Mathematics

Run in partnership with the **Advanced Maths Support Programme (AMSP)**, this project provides national support for the effective development of pedagogy in the teaching of A level Mathematics to enhance the quality of teaching and the conceptual understanding of students. Its aim is to develop and sustain regional communities of practice involving collaboration between teachers. The focus is on developing pedagogy in A level Maths teaching, and developing participants as leaders of A level teaching professional development in their own school or college.

We are currently planning to run one cohort of this work group, led by Chris Kirkham

Dates: 25 Nov + 9 Dec + 3 Feb + 17 Mar + 28 Apr, 4.30pm—6.00pm [Book](#)



BBO Hub Area - 2020/2021

