



Summer Greetings!

Welcome to our summer issue which finds us reflecting on another year at West Yorkshire Maths Hub and as we start to look forward to the next one! Thank you to all of you who have been involved in our workgroups this year. The workgroup leads are passing on many success stories in their annual evaluations which is very pleasing to hear. Please do email any blogs sharing your experiences as we would love to include these in next year's newsletters.

I would also like to take this chance to welcome our newest recruits to the West Yorkshire Maths Hub. Jessica Sands at Benton Park School and Benjamin Fox at Bingley Grammar School are joining our Secondary Mastery Team. Laura Kelly at Atlas Community Primary School, Lorna Terry at All Saints' CofE VA Junior and Infant School, Racheal Poole at Temple Learning Academy and Sarah Bullick at Farsley Farfield Primary School who are joining the Primary Mastery Team. Well done to you all on your successful applications.

I hope that even more of you will be engaged in our workgroups next year so please do not miss the recruitment box in this issue! I wish you all a wonderful summer holiday which I hope is filled with Mathematics ☺

Mark Duxbury
Maths Hub Lead

Interesting Fact...

Half of Bradford school's have now participated in the Teaching for Mastery programme.

Celebrating Mastery Readiness

Forty schools across Leeds, Bradford and Calderdale have this year taken part in the Mastery Readiness programme. Headteachers, maths leads and other teachers came together at Bradford City Football Stadium on 8th July to celebrate the wonderful journey they have embarked upon towards Teaching for Mastery. One participant commented, 'The Mastery Readiness Programme has been such a fabulous opportunity for our school. We feel so well advised and supported as we begin our mastery journey.' Teachers reported on some real shifts in thinking in their schools, particularly when it came to the children's 'mathematical mindsets'. 'Our children were really rooted in the idea that the best mathematicians are the quickest. Following the Mastery Readiness workshops, there is now a much broader view of what it means to be 'good at maths' - and they know they can all be a great mathematicians themselves! All schools who have been on the Mastery Readiness programme this year will move to taking part in Teaching for Mastery for 2019-20. The Mastery Readiness programme has been such a success this year that the NCETM are funding this again for next year. There are still places available so do visit wymathshub.co.uk to sign up for this free programme and you too can be advised and supported in transforming maths in your school!



Meet The Team:

Team Member: Emma Brooksbank
Job Title: Secondary Mastery Specialist

Ever since I can remember, I have always wanted to be a secondary teacher, although it varied between teaching Maths and Music. Maths won, however you will still find me involved in performing arts at my school. I even ended up standing in for a student in the last dance performance! I have been teaching for 5 years, and my current role is second in department at Parkside School in Cullingworth. I first took an interest in the work of the Maths Hubs in my NQT year, working on a project looking at the Shanghai style of teaching to develop a set of lessons on angles in parallel lines. I enjoy creating 'what it's not' examples and writing intelligent practice questions through variation; even if my hand written sheets are a bit 'old school'. I have learned so much during the first year of the Teaching for Mastery Secondary Specialist course, and I can't wait to continue to develop my department in the coming year.

Maths Puzzle:

A square piece of paper is folded in half to give a rectangle with a perimeter of 24cm. What was the area, in cm², of the original square?



We are Recruiting

We are now accepting applications from schools to be part of the 2019/20 Mastery Readiness workgroups and the Early Years work groups. But what does this involve we hear you ask...

Mastery Readiness:

Each Work Group will be led by one of the Maths Hub's Mastery Readiness Leads and involve up to eight primary schools. During the year, they will work closely together to develop subject and pedagogical knowledge as well as supporting teaching, learning and leadership of mathematics across the school by looking at the Five Big Ideas of Mastery Readiness to lay the foundations to developing teaching for mastery in an effective and sustainable manner.

Who can apply:

Mastery Readiness is designed for schools who are not yet in a position to develop teaching for mastery but want to in the future.

Early Years:

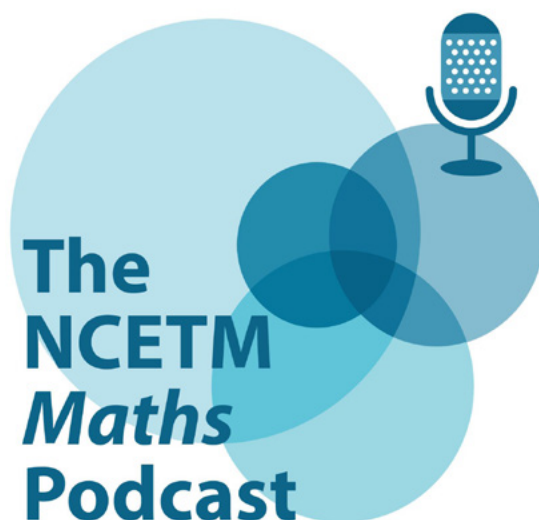
Many schools are adopting a teaching for mastery approach in mathematics. The starting point for a school is usually Year 1 and then thought is given as to how the approach is built across KS1 and KS2. Schools naturally want to consider the teaching of mathematics in Reception and how the transition to Year 1 can best support children's learning.

The Work Groups in this project will start by exploring best practice in Early Years and how the principles might build a secure foundation in mathematics for transition into a teaching for mastery approach in Year 1. It will consider the curriculum - what children need to know and understand; approaches to planning and the inclusion of all children; and appropriate resources and contexts for effective learning.

Who can apply:

This project is aimed at schools who are already committed to teaching for mastery and have previously engaged in a Maths Hub Teaching for Mastery Work Group. A pair of teachers should attend from each school: a Reception teacher and the teacher leading on teaching for mastery within the school. One of the sessions will be aimed at senior leaders within the school, and the headteacher or deputy head should attend this session.

If you would like to express an interest in applying for a place on either of the above work groups please either email WYmathshub@trinitytsa.co.uk or visit our website <https://wymathshub.co.uk/>



The NCETM provides some great podcasts which deliver fantastic CPD straight to your ears. There are loads of podcasts to choose from ranging from EYFS to A-Level Maths.

Some podcasts provide insights in to the work groups Maths Hubs have to offer so if you are thinking about joining a work group why not listen to a podcast to help you decide.

The most recent podcast goes behind the scenes to the Mastery Readiness programme and speaks to a school West Yorkshire Maths Hub have worked closely with in Leeds. The Head Teacher and Maths Lead talk about their journey in developing Maths. To hear this podcast in particular, follow the link. <https://www.ncetm.org.uk/resources/51240>

Date	Title
141117	Entry requirement for A level maths
291117	The new maths GCSE: what the exam board markers found
030118	Shanghai style lesson observation
010218	Continuity in fractions learning between Year 5 and Year 8
010318	Books that help maths teaching
110518	Mastery in Secondary School Maths
250518	NCETM Primary Mastery Professional Development Materials
130618	One primary school's teaching for mastery journey
290618	Maths CPD: what works and why for teachers' professional development
180718	Core Maths: not just more maths
180918	GCSE Maths 9-1: How did it perform in its second summer?
301018	What is it like to be in a Maths Hub Work Group?
231118	How Early Years children develop mathematical thinking
111218	What are the benefits of being a Primary Mastery Specialist?
100119	Secondary maths teaching in Shanghai: two teachers reflect
100119	Primary maths teaching in Shanghai: an exchange teacher's view
130219	Raising girls' participation in maths
060319	Why and how to use the 'ping-pong' teaching style
180319	Teaching the hardest topics in GCSE maths
110619	Behind the scenes of the Mastery Readiness programme

