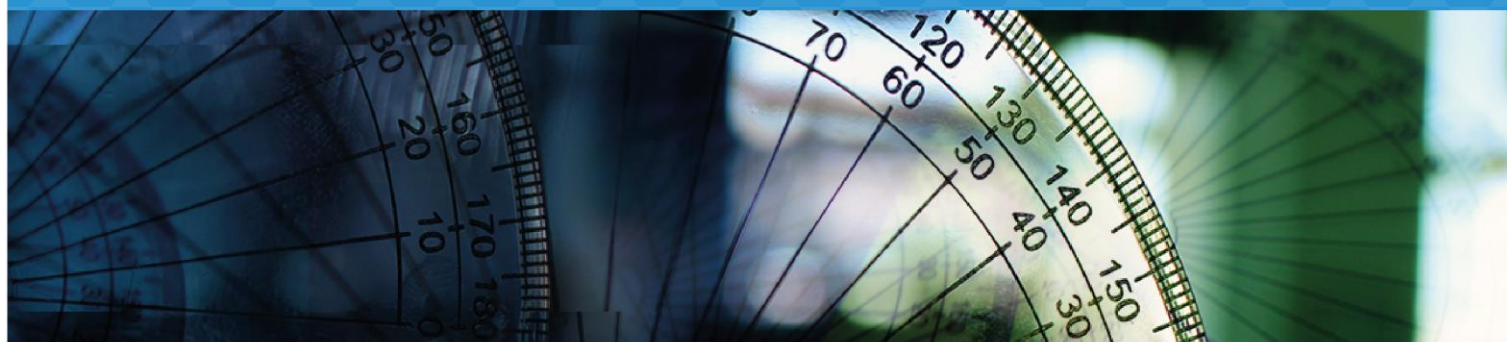


London SW Maths Hub

Project overview – 2017-2018



Early Years ■ Primary ■ Secondary ■ Post 16

Whole school leadership and development



EARLY YEARS

Developing Deep Mathematical Learning in Early Years – Focus on subject knowledge

This Work Group aims to ensure that Early Years practitioners have an awareness of the key concepts in Early Years math's provision and the opportunity to study one concept in greater detail. This concept will be developed through a focus on subject knowledge, how to plan for challenge, how to develop this provision across the setting and how to ensure professional learning is developed across all staff members in the provision. The programme will involve four days over the year with gap tasks between them to embed learning. Three days will be face-to-face training and one day will provide the opportunity to work with colleagues in other settings. There is the expectation that gap tasks will contribute to a resource that is being developed nationally.

Target audience: EYFS practitioners

Dates: TBC

Venue: TBC

Cost: FREE

Developing Deep Mathematical Learning in Early Years – Focus on developing language

This Work Group will focus on the development of mathematical language, identifying best practice in this aspect by promoting a variety in language use and how language structures can be utilised to elicit deeper thinking. The programme will involve three days over the year with gap tasks between them to embed learning. Two days will be face-to-face training and one day will provide the opportunity to work with colleagues in other settings.

Target audience: EYFS practitioners

Dates: TBC

Venue: TBC

Cost: FREE

WHOLE SCHOOL LEADERSHIP AND DEVELOPMENT

Specialist Leaders in Education (SLEs) Supporting implementation of mastery

In a stand-alone SLE project, small groups of schools will work together with an expert in maths-specific professional development (typically a Maths SLE) to find shared solutions to common challenges in maths teaching and learning. This will take place over 6 days throughout the year and schools who are interested in this support should contact the hub administrator.

Additionally SLEs are available for in school bespoke support dependant on needs of individual schools.

Target audience: Schools who require SLE support

Dates: Dependant on Schools

Venue: N/A

Cost: Dependant on requirements.

Teaching for Mastery morning Effective implementation and leading whole school change: a session for Headteachers

This single morning session aimed at Headteachers, senior leads and link inspectors will aim to address and answer many of the key questions associated with embedding teaching for mastery through:

- Exploring and defining some of the key principles of Teaching for Mastery
- Hearing from 2 Headteachers who have implemented a whole school change towards Teaching for Mastery
- Giving delegates an opportunity to observe a Teaching for Mastery style lesson
- A Q&A session led by maths hub lead and Headteachers centred around making judgements and curriculum planning.

Target audience: Heads, senior lead & Link Inspectors

Dates: 02.11.17 & further dates TBC

Venue: Chesterton Primary School

Cost: Free

Microscopic Progression and intelligent practice:

Principles of Teaching for Mastery

This interactive one day CPD programme will introduce attendees to the concept of 'variation' in written calculations. It will aid in deepening the understanding of teaching towards a mastery curriculum in Maths through microscopic progression. The importance of teaching variation will be demonstrated with a chance to observe a lesson and with the opportunity for attendees to return to school with a number of resources which can immediately impact the quality of teaching and learning in school.

Target audience: KS2 teachers

Dates: 05.12.17 or 22.03.18 or 08.06.18

Venue: Chesterton Primary School

Cost: £100

Teaching for Mastery: Showing evidence of pupil progress, including 'greater depth'

Teachers from a number of schools will work together to understand what 'working at expected standard' and 'working at greater depth' might look like and how this could be evidenced. This work will take place over three separate days, with gap tasks in between, focused on collecting evidence and exemplar material in their own school. It is hoped that the exemplar material from this Work Group could be published to aid other teachers in assessment.

Target audience: 1 or 2 teachers per school (KS1/2)

Dates: autumn 2, spring term and summer term

Venue: TBC

Cost: Free

Researching and trialling models of intervention to support pupil progress

The aim of this project is to support teachers in developing intervention for Year 3 pupils for use in schools developing a teaching for mastery approach. Teachers will identify, develop and evaluate a model of intervention that is appropriate for their setting, based on a sound understanding of what constitutes effective intervention. Central to this project is developing specific areas of subject knowledge (initially multiplication and division); unpicking the foundations and underlying misconceptions.

Target audience: Year 3 teacher(s) and maths subject leader

Dates: Spring term tbc

Venue: WPDC, Burntwood School

Cost: Free

Subject knowledge enhancement for support staff

This 2 x ½ day programme (afternoons) will involve support staff from different phases exploring elements of teaching for mastery and pedagogy related to teaching of key mathematical concepts (including place value and the four operations). Participants will have the opportunity to develop understanding of the CPA approach through practical experience and will leave with a range of resources ready for use in the classroom.

Target audience: support staff KS1/2/3

Dates: TBC

Venue: Chesterton Primary School

Cost: Free

PRIMARY

Teaching for Mastery: Exploring Effective Lesson Design

This project will equip you to identify and understand the key features involved in designing lessons in a teaching for mastery context, see them in practice, and create materials to use in your class/school.

Run across the academic year, participants will have opportunity to observe three of our Mastery Specialist Teachers, co-create materials and then develop practice back in school.

Target Audience: KS1/KS2 teachers (two each from a school)

Dates: 17.11.17, 19.1.18 & 3.5.18

Venue: various

Cost: Free

Primary Mathematics Subject Knowledge Enhancement

A 3 day training programme aimed at KS2 teachers to develop maths subject knowledge and pedagogical understanding. The programme includes opportunities for delegates to collaboratively plan lessons incorporating materials from the training days.

Many KS2 teachers are aware that their own maths subject knowledge is a barrier to them delivering high-quality teaching and learning, particularly in light of the heightened expectations in the new NC. This work group will identify and address gaps in the participants' subject knowledge. It will also focus on effective pedagogies for teaching maths at KS2.

Target audience: KS2 teachers

Dates: 10.11.17, 01/03/18, 07/06/18

Venue: WPDC, Burntwood School

Cost: Free

Developing effective questioning Promoting effective differentiation in a Teaching for Mastery classroom

This CPD programme will explore and develop participants understanding of how effective questioning is a key principle in a Teaching for Mastery lesson – supporting the premise that all children can move forward together at broadly the same pace.

This programme will occur over 2 days (1 term apart) with a gap task between. There will be opportunity to observe and discuss a teaching for mastery lesson and share a selection of supportive resources.

Target audience: KS1 & KS2 teachers

Dates: 29/11/17 & 23/02/18

Venue: Chesterton Primary School

Cost: Free

SECONDARY

Y5-Y8 continuity development

A collaborative CPD programme over 2 days with a gap task. This programme will involve upper KS2 and lower KS3 teachers coming together to observe a year 6 and a year 7 maths lesson, exploring the principles of teaching for mastery and how these can be put into practise across phases.

Teachers will also work collaboratively following lesson observations on designing a lesson or series of lessons and resources which can be used in the classroom.

Target audience: upper KS2 teachers/Lower KS3 teachers

Dates: TBC

Venue: St Cecilia's CE Secondary & Chesterton Primary

Cost: Free

Mathematical thinking for GCSE effectiveness

This Work Group offers teachers and their departments nationally coordinated support to address the reasoning and problem-solving challenges of the mathematics curriculum and its assessment in the new GCSE.

The programme will involve 4 x 1-day workshops focused on developing reasoning and problem-solving skills in all lessons. Gap tasks between the workshops will include Lesson Study, allowing wider department participation in the professional development.

Target audience: KS4 teachers (2 per school)

Dates: TBC

Venue: Ernest Bevin School

Cost: £500 of funding available for participant schools

Preparing for the new GCSEs: developing reasoning in KS3

An exciting project spread across three sessions with gap tasks in between for participants to try out materials and approaches in school. The materials delve into pedagogic opportunities to secure sound subject knowledge with pupils in Years 7 to 9 to prepare for the reasoning and problem solving elements in the new style GCSEs. Schools are invited to send two teachers each, to develop and share practice together back in school.

Target audience: KS3 teachers

Dates: TBC

Venue: Raynes Park High School

Cost: £500 of funding available for participant schools.

Challenging topics at GCSE development workgroup

Work Groups in this national project, across the Maths Hubs Network in England, aim to gather evidence from teachers' early experiences with the new maths GCSE, with particular emphasis on how a new mix of challenging topics (for students and teachers) has emerged. Informed by this experience, Work Groups will develop new, or re-shaped, teaching approaches that match the new challenges and that, once embedded, will help students succeed, at both Higher and Foundation level. The group will meet half termly starting from January.

Target audience: KS3/4 teachers (2 per school)

Dates: TBC

Venue: Graveney School

Cost: £500 of funding available for participant schools.

Developing Teaching for Mastery at Secondary

This Work Group is part of a national project that explores areas of practice that are consistent with a teaching for mastery approach to the curriculum. This Work Group will specifically explore a specific element of T4M and develop participants understanding of how it can be used to inform planning and professional development decisions by departments.

Target audience: KS3/4 teachers

Dates: TBC

Venue: Burntwood School

Cost: Free

POST 16

Teaching new GCSE resits

This Work Group is part of a national project To explore effective ways of working with teachers of post-16 resit GCSE as well as to explore effective ways of teaching key content to GCSE resit students. The intended outcomes of the project are for: Improved awareness of new GCSE qualification structure, themes, content and issues; increased awareness of and effective use of existing good resources; Increased understanding of ways of working within this sector

Target audience: teachers of GCSE resits

Dates: TBC

Venue: TBC

Cost: Free

Contact Hub Administrator Lesley Dibbens if you would like more information on our projects:

admin@london southwestmathshub.co.uk or lesley.dibbens@bellevilleschool.org