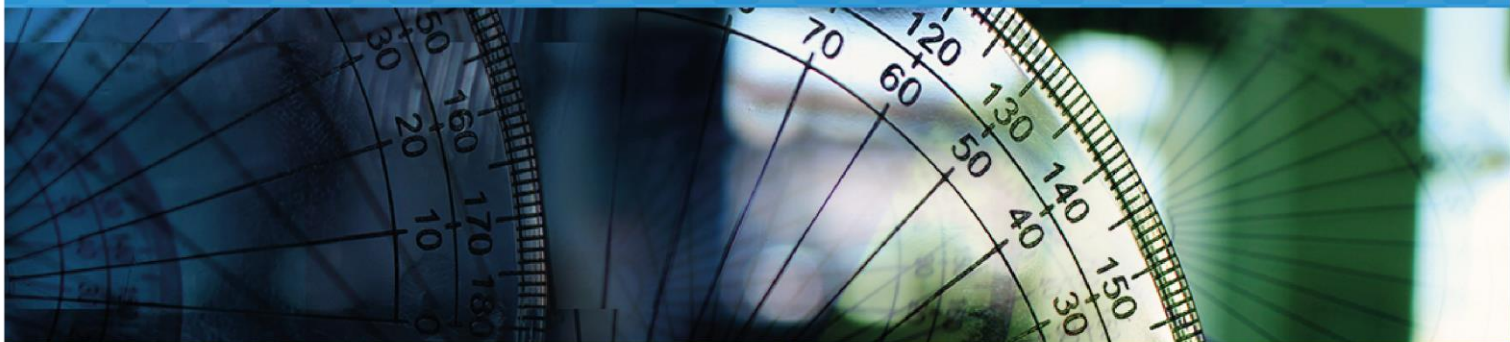




London SW Maths Hub

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

Maths Mastery in Early Years through the use of pattern

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: 26-02-2018, 23-04-2018, 11-06-2018

Venue: Ravenstone Primary School

Cost: FREE

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

The use of visual aids to support language in Early Years maths

This Work Group will focus on the development of mathematical language. Consideration will be given to different ways in which children learn and best practice by promoting the delivery of outstanding lessons which caters for a range of learning styles. Fundamental to this will be the use of visual aids in supporting the development and understanding of mathematical language.

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: 29-01-2018, 26-06-2018 plus spring term paired school visit

Venue: Belleville Primary School

Cost: FREE

EQUIPPed for maths developing exciting learning for maths in Early Years

A highly interactive programme providing two days of taught workshops and action planning with support in your setting to transform provision for maths.

EQUIPPED for maths follows the EQUIP (Early Years Quality Improvement Project).

Target audience: EYFS practitioners

Dates: 08-02-2018, 17-05-2018

Venue: Eastwood Nursery School

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: 02-11-2017 & 28-02-2018

Venue: Chesterton Primary School

Cost: Free

PRIMARY

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: 05-12-2017 or 22-03-2018 or 08-06-2018

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: 2 teachers per school (KS1/2)

Dates: 12-01-2018, 20-03-2018, 13-06-2018

Venue: Chesterton Primary School

Cost: Free

Researching and trialling models of intervention to support pupil progress

This Work Group is looking for teachers who lead maths and/or lead intervention in their schools. Schools should have begun to commit to teaching for mastery development, ideally having been part of a teaching for mastery Work Group previously. Teachers in the Work Group will trial a chosen intervention model within their school, with two classes. Over the course of the year, the Work Group will collaborate to critique, develop and evaluate their chosen model(s) to feed into the national project's conclusions regarding effective models for same-day intervention. There will be a one day workshop per term with gap task between.

Target audience: Maths leads/intervention teachers

Dates: 29-11-2017, 05-12-2017, 11-01-2018, 20-02-2018

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: 04-12-2017 & 07-12-2017

Venue: Chesterton Primary School

Cost: Free

Teaching for Mastery:

What Makes an Excellent Lesson Design?

Teachers in this Work Group will work together to plan exemplar lessons (drawing on new Mastery Professional Development materials produced by NCETM/Maths Hubs) and in so doing will improve lesson design across their school. The programme is designed for 2 teachers from each participating school. One of these should be in a middle or senior leadership role (ideally the Maths Lead) with experience and expertise in teaching for mastery.

There will be a one day workshop per term, in between these meetings, schools will work in pairs to plan and deliver lessons, and then observe each other where possible, with a focus particularly on the small steps required in teaching for mastery.

Target audience: 2 teachers per participant school (one middle leader)

Dates: 17-11-2017, 26-01-2018, 03-05-2018

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: 10-11-2017, 01-03-2018, 07-06-2018

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: 29-11-2017 & 23-02-2018

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

How can reasoning and problem solving equip students for the rigour of the new GCSE

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: 27-02-2018, 06-03-2018, 22-05-2018, 03-07-2018

Venue: Ernest Bevin College

Cost: £500 of funding available for participant schools

Preparing for the new GCSEs: developing reasoning in KS3

How to build reasoning skills at KS3 and support current KS4

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: 31-01-2018, 07-03-2018, 16-05-2018, 20-06-2018

Venue: Raynes Park High School

Cost: £500 of funding available for participant schools.

Developing Teaching for Mastery at Secondary

Variation in questioning to promote deeper understanding

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.

Run across the academic year, participants will have an opportunity to work collaboratively to understand, co-create materials and then develop practice back in school.

Target audience: KS3/4 teachers

Dates: 22-02-2018, 22-03-2018, 10-05-2018

Venue: Burntwood School

Cost: £400 of funding available for participant schools.

Year 7 Maths Mastery Showcase

This interactive course is aimed at KS3 teaching staff, maths co-ordinators and senior leaders who would like to deepen their understanding of developing a Maths mastery curriculum in their schools.

Its core purpose is to share strategies that support the planning, delivery and resources required to develop a mastery curriculum in Maths by emphasising the importance of conceptual understanding alongside gaining the procedural proficiency. It will also address the misconception that mastery is focused solely on rote procedures and highlight how mastery gives pupils the opportunity to problem solve and reason in a truly mathematical manner.

Target audience: KS3 teaching staff, maths co-ordinators and senior leaders

Dates: 30-11-2018, 22-02-2018

Venue: Saint Cecilia's C of E School, SW18

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:

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