

Spring – summer 2016

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London Central & NW Maths Hub Projects 2015-16

What are we *actually* doing:

The London Central and North West Maths Hub is working with schools across London with a particular focus on seven boroughs in Central and NW London: Westminster, Camden, Islington, Ealing, Brent, Barnet and Harrow.

The programme is funded by the Department for Education (DfE) and coordinated centrally by the National Centre for Excellence in the Teaching of Mathematics (NCETM).

Courses booking now – most are FREE

1. Shanghai Maths session – suitable for primary & secondary teachers	FREE Teacher Research Group (TRG) is taking place on Thursday 23rd June 11.30-3.30pm See a lesson co-planning session; then see the lesson taught; then be part of the debrief. At St Marylebone School Book this FREE course here: https://goo.gl/WNZUVt >>
2. Introducing Maths Mastery	Introducing Maths Mastery and The Shanghai Maths Project seminars. Harper Collins - Shanghai Maths Project - an approach to Mastery 16 th June 1.00-4.00pm hosted at St Marylebone Cost: £50 per person register your interest now to reserve your place. email education.marketing@harpercollins.co.uk
3. Core Maths post 16	FREE session on the Core Maths Course and sharing schemes of work. Book next session here: https://goo.gl/OSvHWM
4. A level Maths	A Level Maths Subject enhancement course MEI A Level subject enhancement (TAM) book here >> Flyer: http://www.furthermaths.org.uk/files/FMSP-TAM.pdf


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Follow us	Follow us on Twitter >> @MathsHubLdnCNW
Sign up	Add your name to the Maths Hub database here >>
Contact us	Contact us about any of the projects below (workgroups) mathshub@stmaryleboneschool.com

Maths Hub national projects (Workgroups) There are five projects running nationally with similar work happening in all the Maths Hubs across the country.	To get involved contact	Booking or shared resources
<p>1. England-China Education Research and Innovation Project (Primary & Secondary) There have been two teacher exchanges between England and Shanghai in order to research best practice. Here we have begun to disseminate findings and trial potential education boosting practices.</p>	Contact: mathshub@stmaryleboneschool.com if you want to take part in the next meeting	Maths Hub resources in one place here >>
<p>2. Use of high quality textbooks at Primary We are working with seven primary schools within our hub who are trialling new high quality textbooks based on Singaporean methods. They have also been given specialist training on how to use these textbooks effectively.</p>	Contact for next session booking: mathshub@stmaryleboneschool.com	Inspire Maths Link: here >>
<p>3. Increasing participation in level 3 maths post-16 We have been working with a number of schools and colleges to research factors affecting the take up of Mathematics beyond GCSE and have been rolling out strategies to address barriers.</p>	Contact: Jane Annets janeannets@btinternet.com if you want your school to be involved More information here: http://www.mathshubs.org.uk/what-maths-hubs-are-doing/post-16-participation/	
<p>4. Primary Mastery and Key Stage 3 Mathematical Reasoning Teacher research Groups. We have set up a number of teacher research groups across our hub with the aim of having over 30 different schools working in groups to address different aspects of teaching Mathematics</p>	KS3 sessions at the moment are fixed to a group of five schools. Contact Jenny Laurie if you are keen to take part in further planned role outs j.laurie@stmaryleboneschool.com	
Maths Hub Local projects Along with the five nationally coordinated projects we are running a number of projects (workgroups) locally.	To get involved contact	Booking or shared resources
<p>1. Primary Network Meetings We are hosting Network Meetings through the year with different focuses to which all local primary school Maths teachers are invited to. This has been something requested for by local primary schools.</p>	Contact for next session: mathshub@stmaryleboneschool.com June date announced soon	Maths Hub resources in one place >>
<p>2. Intervention Impact Research Project (Partnership with Westminster Academy) Based on the rapid intervention seen in Shanghai, this research project with Westminster Academy is allowing them to plan assessments for 'on the day' intervention. Intervention sessions then take place weekly based on the data obtained from the assessments.</p>	Contact: mathshub@stmaryleboneschool.com	
<p>3. Core Maths Shanghai Style Teacher Research Groups Based on a model of Studying Lessons combined with Teacher Research Groups used in Shanghai, Nick McIvor (CMSP Lead and Research Coordinator) leads this project. Local schools take part in a rota of observations of Core Maths Lessons that are taking place</p>	Contact: n.mcivor@stmaryleboneschool.com Book next session here: https://goo.gl/OSvHWM	http://core-maths.org Our Core Maths shared resources here:

<p>throughout the year, and after each group observation Nick hosts a teacher research group.</p>		<p>https://goo.gl/olttro</p>
<p>4. Primary Subject Knowledge Enhancement Course (Partnership with Eleanor Palmer Primary School, Camden Primary TSA) A five day subject knowledge course. It is only through sustained CPD that there are real shifts in pedagogy and practice towards mastery. The course involves lots of hands on learning, and, as it is school-based, the chance to observe outstanding teaching and work alongside pupils</p>	<p>Next cohort starts recruiting July 2016 for September 2016 start</p> <p>Email tsa@stmaryleboneschool.com to express an interest</p>	
<p>5. GCSE & AS Deepening Understanding Course Two cohorts of teachers: 1 post 16 and 1 GCSE will take part in 6 face to face day long CPD sessions to enhance subject knowledge. Courses based on previously run LSEF courses with leaders that have already successfully delivered the course</p>	<p>Contact: mathshub@stmaryleboneschool.com</p> <p>GCSE book here >></p> <p>Other GCSE subject enhancement here >></p> <p>A Level subject enhancement (TAM) book here >></p> <p>Flyer: http://www.furthermaths.org.uk/files/FMSP-TAM.pdf</p>	
<p>6. Geogebra GCSE/A-level Course This course will link heavily with our other SKE courses (GCSE and KS5) to help support those keen to use ICT to support the learning of students. The course will be an amalgamation of a number of other MEI Geogebra courses. Both workgroup leaders will have been trained and certified to develop and run the course.</p>	<p>Contact to express interest: mathshub@stmaryleboneschool.com</p>	
<p>7. Aspiring Mathematics Specialist Leaders of Education programme This work group continues on last year's success addressing the balance between the high demands for specialist Maths support at leadership level within schools, with the lack of offering currently available. Evidence of this is clear from the number of schools that are willing to pay for Maths specific support, yet still being turned away due to lack of experienced support actually available.</p>	<p>Contact Steve Price: s.price@stmaryleboneschool.com</p>	<p>How to become and SLE here >></p>
<p>8. Maths Development Programme (Partnership with St Dominic's Sixth Form College, Harrow Project) St. Dominic's Sixth Form College is leading a Maths Development Programme in partnership with Sacred Heart Language College, Salvatorian School, St. James School, Sion-Manning School and others across Harrow, Barnet, Brent and further afield.</p>	<p>Contact: mathshub@stmaryleboneschool.com and Andrew.Parkin@stdoms.ac.uk</p>	
<p>9. SEND Maths Finance Education A new project base at Swiss Cottage TSA, Camden and lead by Tracy Edwards</p>	<p>Contact to express an interest: tracy.edwards@swisscottage.camden.sch.uk</p>	
<p>10. Primary Key Stage 1 subject enhancement A new project base at Grafton TSA, Islington and lead by Andrew Turnock. In development now for September '16 start</p>	<p>Email tsa@stmaryleboneschool.com to express an interest andrew.turnock@grafton.islington.sch.uk</p>	

Maths Hub overview

<p>Who are we?</p>	<p>Maths Hub London Central and NW, one of 36 Maths Hubs in England London Central and North West Maths Hub is led by The St Marylebone CE School.</p> <p>The programme is funded by the Department for Education (DfE) and coordinated centrally by the National Centre for Excellence in the Teaching of Mathematics (NCETM).</p>
<p>Area covered by this Maths Hub London Central and NW</p>	<p>The geographical area we cover comprises of the London Boroughs of Westminster, Camden, Islington, Harrow, Barnet, Brent and Ealing (Shared with Fox Primary: Central & West London Maths Hub)</p>
<p>Who are we working with to deliver Maths CPD</p>	<p>NCETM MEI – Mathematics in Education and Industry Core Maths Support Programme IoE UCL The five other London Maths Hubs St Vincent’s Catholic Primary, Westminster St. Dominic’s Sixth Form, Harrow Swiss Cottage TSA, Camden West London TSA, H&F Ealing TSA Compton TSA, Barnet Camden Primary Partnership TSA Grafton TSA, Islington Westminster Academy</p>
<p>Maths Hub overview</p>	<p>A short three minute jazzy video produced by NCETM giving a national overview. It includes a section from our Maths Hub. Click here to play >></p> 

England – China Maths project

<p>Primary & Secondary Shanghai – where are we now?</p>	<p>Next Teacher Research Group (TRG) is taking place on Thursday 23rd June 11.30-3.30pm See a lesson co-planning session; then see the lesson taught; then be part of the debrief. At St Marylebone School Book this FREE course here: https://goo.gl/WNZUVt >></p> <p>Secondary England - China observation day resources Nov. 2015 here >> </p>
<p>Secondary sector to China Sept.' 15 >></p>	<p>Shanghai Visit September 2015. Dan Chandrakumar and Susanne Li-In-Oy travelled with and 68 other Secondary Maths teachers to China in September 2015.</p> <p>1. Shanghai report back summary September 2015 ppt here >></p>

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2. Shanghai short video summary [here >>](#)



Primary sector to China Sept. '14

Related Shanghai resources
Shanghai Visit September 2014.

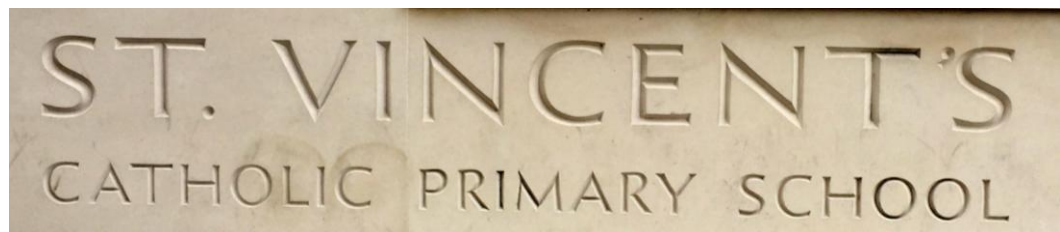
1. Peter Jordan's **Maths Hub overview**: [here >>](#)
2. Dan Chandrakumar's **Maths Hub overview presentation** [here >>](#)
3. Katrina Hassan St Vincent's' Catholic **Primary Shanghai** experience September 2014 and impact [here >>](#)
4. NCETM's own China – England web site [click here >>](#)



China to Primary Sector Nov. '14 >>

5. Staff from St Vincent's Catholic Primary School, Westminster travelled to Shanghai in September 2014. Read their PowerPoint [summary here >>](#)
6. **Full evaluation here >>** of the St Vincent's Catholic Primary School, Westminster Shanghai placement, with thanks to all at St Vincent's.
7. St Vincent's Catholic Primary School, Westminster. PowerPoint resources linked to the Shanghai placement. With thanks to all at St Vincent's all [here >>](#)

PowerPoint resources linked to the Shanghai placement.



PowerPoint resources linked to the Shanghai placement. With thanks to all at St Vincent's [here >>](#)



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**The National
Maths Hub
Overview >>**

NCETM overview [here >>](#)

Mastery approaches to Mathematics and the new National Curriculum October 2014 NCETM [report here >>](#)

National Curriculum primary assessment materials

**To download for
Years 1-6 [here](#)
>>**

To help teachers make judgements on the degree to which pupils have acquired **mastery** of the mathematics curriculum, the NCETM, working in conjunction with the Maths Hubs programme, has produced a series of questions, tasks and activities, mapped against key topics of the National Curriculum.

The materials, produced in collaboration with Oxford University Press, are divided into six separate documents, one for each of Years 1 to 6 inclusive.

Each document starts with an introduction to the principles of teaching for mastery and the implications for assessment in mathematics in the context of the new curriculum. The structure and suggested use of the new assessment materials is also explained.

Calculation Guidance for primary schools

**Calculation
Guidance for
primary schools
download [here](#)
>>**

To help teachers and schools develop their own calculation policies, or to complement existing policies, and help to shape how pupils are taught and learn calculation methods, the NCETM, working in conjunction with the Maths Hubs programme, has produced a **Calculation Guidance** document, based on experiences and feedback from schools and teachers participating in the first year of the England-China project.

The 19 page document, which can be downloaded and/or printed from this page, is divided into 15 sections, each dealing with an aspect of calculation considered a priority in helping pupils develop efficient and accurate methods of completing calculations.

Text book project

**Use of high
quality
textbooks
to support
teacher
professional
development**

**MATHS
NO PROBLEM!**



**INSPIRE
MATHS**



**Book CPD
Introducing
Maths Mastery**

Introducing Maths Mastery and The Shanghai Maths Project seminars. Harper Collins - Shanghai Maths Project - an approach to Mastery 16TH June 1.00-4.00pm hosted at St Marylebone
Cost: £50 per person [register your interest now](#) to reserve your place.
email education.marketing@harpercollins.co.uk

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<p>Book CPD Introducing Maths Mastery</p>	<p>Led by Amanda Simpson, the former director of primary at the NCETM, these half day seminars will offer valuable insight into teaching for mastery in primary maths and practical steps to implementing a mastery approach</p> <p>What will the half day sessions cover? Mastery in Maths - An introduction to implementing the approach in your Maths teaching The Shanghai Maths Project and Singapore Variation theory – what it is and how to use it. Concrete Pictorial Abstract (CPA) – an insight into the approach Tips on lesson planning, timetabling and classroom organisation The anatomy of a lesson</p>
<p>NCETM overview</p>	<p>NCETM overview Here >></p>
	<p>End of year (summer 2015) report >> from primary schools participating in the first two terms of the textbook project.</p>

Post 16 - Core Maths <http://www.core-maths.org/>

<p>Core Maths</p>	<p>St Marylebone CE School is an Early Adopter of Core Maths and Nick McIvor SLE Maths at St Marylebone is a Core Maths Lead.</p> 
<p>Core Maths Support Programme (CMSP)</p>	<p>Core Maths Support Programme (CMSP) CfBT, in collaboration with the National Centre for Excellence in the Teaching of Mathematics (NCETM) and the DfE run Core Maths Support Programme. Funded by the Department for Education, Core Maths >> is a new level 3 course for students in post-16 education, with UCAS points, which forms a major part of the government's plan to increase participation and raise standards in mathematics education. The aim is that by 2020, the vast majority of all students in post-16 education continue to study some form of mathematics, whether it is GCSE, A Level or the new Core Maths qualifications introduced this year.</p>
<p>FREE Maths Hub Core Maths Workshop</p>	<p>Book next session here: https://goo.gl/OSvHWM Wednesday 15th June 2.00-5.00pm at St Marylebone View Map >></p>
<p>St Marylebone Core Maths resources</p>	<p>Our Core Maths shared resources here: https://goo.gl/olttro</p> 
<p>St Marylebone Core Maths case study</p>	<p>St Marylebone Core Maths case study here: http://www.core-maths.org/case-studies/st-marylebone-ce-school/</p>

Our Maths Hub shared resources all [here](#)  **Dropbox**

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NCETM Bespoke newsletter

**Bespoke
Newsletter link
here >>**

NCETM Bespoke Newsletter [link here >>](#)

The magazine, called **Bespoke**, is published on the Maths Hubs programme website, and is also emailed to all 180 000 NCETM registered users.

Maths organisations

At the national level, the Maths Hubs programme, led by the NCETM, is developing partnership working arrangements with organisations that can support across the Maths Hubs network. At the moment, these include:

[The Further Mathematics Support Programme](#) | [The Core Maths Support Programme](#) | [NRICH](#) | [Mathematics Mastery](#)

Please use the links below to navigate to relevant pages on external websites:

[United Kingdom Mathematics Trust \(UKMT\)](#) | [The Royal Institution of Great Britain](#) | [STEM Clubs \(STEMNET\)](#) | [Millennium Mathematics Project Events](#) | [Maths Inspiration](#) | [RSS Education Projects and Activities](#) | [Maths in the City](#) | [IMA News and Events](#) | [London Mathematical Society Events](#)

Other groups c/o MEI web site:

- **Academically More Able** Find out more about the area of academically more able
- **ACME** The Advisory Committee on Mathematics Education is an independent committee which acts as a single voice for the mathematical community
- **Careers in Mathematics** Detailed information and advice on the wealth of careers opportunities involving Mathematics
- **Careers in Statistics: Royal Statistical Society** Many useful links with detailed information and advice
- **London Mathematical Society** See especially the Education Committee page - useful enrichment resources listing
- **Making Sense of Maths** A Manchester Metropolitan University project to produce new teaching materials for Foundation Tier GCSE and Functional Mathematics
- **More Maths Grads** more maths grads is a programme designed to increase and widen participation within the mathematical sciences
- **National STEM Centre** Up-to-date information, support and advice to schools about quality science technology engineering and mathematics activities that enhance and enrich the curriculum
- **NCETM** The National Centre for Excellence in the Teaching of Mathematics
- **Postgraduate (Mathematics) courses**
- **The Association of Teachers of Mathematics** Resources, news and discussion of current issues in Maths education from the ATM
- **The Further Mathematics Support Programme** Supports the teaching and learning of Further Maths
- **The Institute of Mathematics and its Applications** Professional body that has Chartered status
- **The Mathematical Association** Resources, news and discussion of current issues in Maths education from the MA
- **The Mathematical Association of America** Interesting resources, articles, reviews etc
- **Universities** Links to UK university Maths dept web sites

These various individuals, groups and organisations offer a range of freely available resources that could be suitable for use in teaching **Core Maths**. c/o Core Maths website <http://www.core-maths.org/>

- **Association of Teachers of Mathematics (ATM)**
- **Bowland Maths**
- **Centre for Innovation in Mathematics Teaching (CIMT)**
- **Freudenthal Institute for Science and Mathematics Education**
- **Further Mathematics Support Programme (FMSP)**
- **GAPMINDER**
- **Khan Academy**
- **Mathematics Assessment Resource Service**
- **Mathematics in Education and Industry (MEI) - Critical Maths**
- **Mathematics in Education and Industry (MEI) - Integrating Mathematical Problem Solving Resources**
- **Mr Barton Maths**
- **Mr Dan Meyer**
- **National STEM Centre**
- **NCETM**
- **NRICH**
- **Nuffield Foundation**
- **Personal Finance Education Group (pfeg)**
- **RISPs**
- **Secondary Maths ITE**
- **The Mathematical Association**

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Maths Hubs FAQs

What are they?

The **Maths Hubs** programme for the first time brings together all Mathematics education professionals in a national network of hubs, each locally led by an outstanding school or college, and in partnership with neighbouring schools, colleges, universities, CPD providers, maths experts and employers. This is a new way of harnessing all Maths teaching expertise within an area, to spread excellent practice even more widely, for the benefit of all pupils and students.

How many Maths Hubs are there?

36 across England

Who do the hubs serve?

Each hub serves all schools and colleges, from nursery age to 19-year-olds in the broad geographical area it covers.

What does the hub itself consist of?

The hub consists of much more than just the lead school or college. It consists of the broad group of partner schools, colleges, and other institutions with a mathematics role or interest that the lead school assembles in a strategic leadership group. These institutions are likely to be spread geographically throughout the hub's area.

How do teachers and schools get involved? Email: mathshub@stmaryleboneschool.com

Individual teachers can register with the Maths Hubs programme and associate themselves with their 'local' hub, thereby gaining access to the online areas where they can contribute to projects and communicate with other teachers in their area. In a similar fashion, schools can connect to the local hub and both contribute to formulating and running activities of maths education improvement, and, where a school needs support, benefiting from those activities as well. **Add your name to this page here >>**

How does the Maths Hubs programme have a national dimension?

The leadership individuals in each hub communicate with each other to share experience and ideas in a national network. This group also meets once a term at the National Maths Hubs Forum. This is the forum for the development of policies with national significance. We hope the Maths Hubs Forum will become a respected and authoritative voice of leadership in the field of Mathematics education.

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Contact us

HOW TO CONTACT US? Maths Hub London Central and NW

Contact us all in one go (preferred)	mathshub@stmaryleboneschool.com	
Hub Maths Lead	Dan Chandrakumar	d.chandrakumar@stmaryleboneschool.com
Hub Senior Lead	Peter Jordan	p.jordan@stmaryleboneschool.com
Hub Maths and Senior Lead	Jenny Laurie	j.laurie@stmaryleboneschool.com
Maths Hub Administrator	Helen Hall	tsa@stmaryleboneschool.com

Add your name to our [Maths Hub database here >>](#)



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