

Secondary Mastery Specialist Programme

2018/19 Cohort 3 - Information and Application

Following the ongoing success of the first cohorts of the secondary Mastery Specialist programme, Maths Hubs, working in conjunction with the NCETM, are now seeking applications from secondary schools that wish to nominate 'lead teachers' to take part in an important three-year professional development programme leading to the designation of *Secondary Mastery Specialist*. Schools nominating teachers for this role would be committed to developing teaching for mastery in their own classrooms, their own mathematics department and, later on, facilitate and support teaching for mastery in a small number of other interested secondary schools within their Maths Hub area.

Background

Since 2014, Maths Hubs and the NCETM have been working together to develop approaches to mathematics teaching for mastery, a pedagogical approach which aims to develop a deep and connected mathematical understanding for all learners, enabling them to better tackle mathematics questions in examinations, giving them a sound basis for future learning and preparing them for their future employment. Two cohorts of primary Mastery Specialists have completed a development programme and are now each leading Work Groups involving other primary schools; a third cohort are part-way through their development year. At secondary, 130 teachers are completing a second year of development ahead of beginning close work with other teachers, although many are already beginning outreach work. During the two years of development they have been exploring how a teaching for mastery approach can work in their own classrooms and in their own departments. A number of them have shared some of their reflections on how they have developed practices within their own schools in a [series of short videos](#). In recent months the government has announced substantial funding to support the expansion of both primary and secondary teaching for mastery, offering the opportunity to train a second cohort of secondary Mastery Specialists.

The work in both primary and secondary has built upon the positive [China-England exchange programme](#) where teachers in this country have worked closely with Shanghai teachers and have offered a series of 'showcase' lessons for teachers to begin to find out more about the approaches.

What will participation in the programme involve?

Academic year 2018/19: Participating schools nominate a lead teacher to develop as the Mastery Specialist. During the first year, the teacher will attend three residential training events (dates and locations to be confirmed), and develop their own skills of teaching for mastery with their own classes. In addition, the Mastery Specialist will spend some time working within the hub (meeting with Teaching for Mastery Lead, visiting primary and/or secondary schools implementing teaching for mastery etc. to broaden their own understanding of the work). The work amounts to 15 days' worth of time, funded at £200 per day.

- 4.5 days attending central residential;
- 11.5 days in-school and local development, including:
 - working on own classroom practice
 - meeting with Hub's Secondary Teaching for Mastery Lead and wider team;
 - visiting classrooms (Primary and Secondary) to see TfM in action;

- attending Shanghai Showcase events.

Academic year 2019/20: during this year, participants will continue to develop their own classroom practices and also enable their departmental colleagues to explore and implement teaching for mastery approaches. There will be 15 days funded at £200 per day to enable the participant to attend two residentials, work within their own department, liaise with the hub's Secondary Teaching for Mastery Lead and wider team. Additionally, as part of the 15 days, they will develop their own skills in leading professional development through the separate, NCETM Accredited PD Lead programme*, and as a result they will be well-placed to lead professional development within their own schools and beyond.

In the academic year 2020/21, the Mastery Specialists will have the opportunity to work with colleagues from two other schools, to enable them to each embed teaching for mastery approaches within their own departments.

This is a fantastic opportunity for participants and their schools to improve maths education through teaching for mastery, and also to develop future leaders.

**unless the participant is already an NCETM Accredited secondary PD Lead, in which case the full 15 days will be spent working on teaching for mastery work.*

What are the benefits of participating in the programme?

The benefits for schools that apply to be part of the programme include:

- The teachers in the department (including the lead teacher) developing a deep understanding of the principles and pedagogies underpinning teaching for mastery and enhanced mathematics subject knowledge with a particular emphasis on progression within key areas of mathematics
- The teachers developing teaching, planning and assessment practices which support a teaching for mastery approach
- The lead teacher developing his/her own understanding and practice in supporting collaborative professional development within and beyond school. (Participants who are not already NCETM Accredited PD Leads will also be able to gain this accreditation through successful completion of the programme.)
- The department developing a clear set of principles, policies, practices and systems (including curriculum and staffing / timetable developments) which support a mastery curriculum and a teaching for mastery approach
- The department making effective use of materials and resources, including textbooks to support the design of well-crafted lessons to support pupils' mastery
- Pupils developing a deep understanding of the mathematical ideas they are taught so that they fully meet the aims of the National Curriculum (i.e. fluency, reasoning and problem solving); showing a positive attitude towards mathematics; enjoying learning the subject; and demonstrating a growth mind-set

Who can apply?

For teachers being nominated by a school for the programme, the criteria outlined in the table below should be addressed in the application form, in the lead teacher's statement and in the headteacher/senior leader's statement.

Essential	Desirable
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Qualified Teacher Status	Additional Status, e.g. Lead Practitioner; Mathematics SLE; NCETM Accredited PD Lead
Employed as a teacher in a Middle/Secondary School	Mathematics Subject Leader
Good teaching skills in mathematics as evidenced by internal/external/Ofsted observation	A minimum of 2 years' experience teaching mathematics
Passion and enthusiasm for teaching for mastery	
Ability to work collaboratively with others	
Successful track record of working effectively with other professionals within own school	Successful track record of working effectively with other professionals across a group of schools
Excellent communication and interpersonal skills	The ability to grow leadership capacity in others
An understanding of what constitutes effective learning in mathematics, and the ability and confidence to communicate this	Already engaged with Maths Hub work on teaching for mastery and/or the China-England exchange

What are the expectations of participating schools?

Schools that are selected to have their nominated teacher participate in the programme would commit to the following expectations:

- The lead teacher will participate fully in the development programme and work on developing both understanding and practice
- Working with the support of the subject leader, the lead teacher will support the department in developing its approach to teaching for mastery
- Working with the Maths Hub, the lead teacher will help with the wider work of the Hub, particularly in Year 3
- The school's senior leadership will support the department in its teaching for mastery development work, including ensuring the lead teacher receives the required release time

What is the funding for the programme?

In 2018/19, the Maths Hub will cover the cost of the 15 days' release time for the nominated Mastery Specialist, amounting to £3000 per school in total. In 2019/20, the Maths Hub will cover the cost of the 15 days' release time for the nominated Mastery Specialist (£3000) and will fund the cost of the teacher enrolling and participating in the NCETM Accredited Secondary PD Leads programme. Travel costs to all the training residentials will also be covered. In 2020/21

How do schools apply to take part?

Applicants should complete the application form below and e-mail it to the NCETM (mathshubs@ncetm.org.uk). by 5pm on Thursday 7th June 2018. All applications should also be copied to the applicant's head teacher. The selection process will be handled by the Maths Hub. Initial details of Maths Hubs can be found in the Appendix and full details at www.mathshubs.org.uk.

Application to participate in Secondary Mastery Specialist Programme

To apply:

- Applicant and nominating head teacher/senior leader complete the relevant parts of the form.
- Email the application to the NCETM (mathshubs@ncetm.org.uk) by **5pm Thursday 7 June 2018**.
- Applicants will be notified by 14 July 2018.

Name of school		
School URN		
Maths Hub		
Nominated teacher for programme	Name	
	Email	
	NCETM Username	
Head of department (name and e-mail)		
Nominating head teacher/senior leader (name and e-mail)		

Nominated teacher details and statement (to be completed by teacher applicant)

QTS status	Yes/No	No. of years teaching	
Teaching groups 2017/18			
Current role in school			
Other maths related awards/roles (e.g. SLE, PD Lead) – give date awarded			

Teaching history (most recent post first)

Period of employment	School	Position held

Relevant mathematics professional development

Year	Professional Development activity/programme

Applicant statement. Please give information that shows how you meet the application criteria. Also, explain why you wish to apply for the programme (maximum 300 words).

Nominating head teacher/senior leader statement

Please explain why the school is committed to developing teaching for mastery across the maths department. Also, specify why you believe the applicant is a suitable candidate for the Mastery Specialist role (maximum 300 words).

Confirmation of school commitment (electronic signatures)

If the school is chosen to participate in the programme, we understand and commit to the following expectations:

- The lead teacher will participate fully in the development programme and work on developing both understanding and practice
- Working with the support of the head of department, the lead teacher will support the department in developing its approach to teaching for mastery
- Through liaison with their local Maths Hubs' Secondary Teaching for Mastery Lead, the lead teacher will work with a small number of teachers from other schools to enable them to embed Teaching for Mastery in their own departments in Year 3
- The school's senior leadership will support the department in its teaching for mastery development work, including ensuring the lead teacher receives the required release time

Nominating Head Teacher/Senior Leader	<i>Signature of nominating Head Teacher/Senior Leader</i>
Head of department	<i>Signature of Head of Department</i>
Teacher applicant	<i>Signature of applicant teacher</i>

(Note: When the form is e-mailed, please copy in all signatories as confirmation of their electronic signature)

Appendix: Names of Maths Hubs and lead schools/colleges

Below is a list of the 35 Maths Hubs. Contact details for each Maths Hub can be found on the Maths Hubs Programme [website](#).

South West Region:

Cornwall and West Devon Maths Hub (Truro and Penwith College)
Jurassic Maths Hub (The Woodroffe School, Lyme Regis)
Boolean Maths Hub (Cabot Learning Federation with Ashley Down Primary School, Bristol)
GLOW Maths Hub (Balcarras Teaching School, Cheltenham)

West Midlands Region:

Central Maths Hub (Bishop Challoner Catholic College, Birmingham)
Salop and Herefordshire Maths Hub (The Priory School, Shrewsbury)
North Mids and Peaks Maths Hub (Painsley Catholic College, Cheadle, Staffordshire)

North West Region:

North West One Maths Hub (Altrincham Grammar School for Girls)
North West Two Maths Hub (Ashton on Mersey School, Manchester)
North West Three Maths Hub (St Helen's Teaching School Alliance)
North North West Maths Hub (Lancaster Royal Grammar School)

North East Region:

Great North Maths Hub (North Tyneside Learning Trust)
Archimedes NE Maths Hub (Carmel College, Darlington)

Yorkshire and the Humber Region:

Yorkshire Ridings Maths Hub (Harrogate Grammar School)
West Yorkshire Maths Hub (Trinity Academy, Halifax)
Yorkshire and the Humber Maths Hub (Outwood Grange Academies Trust, Wakefield)
South Yorkshire Maths Hub (Notre Dame High School, Sheffield)

East Midlands Region:

East Midlands West Maths Hub (George Spencer Academy & Technology College, Stapleford, Nottinghamshire)
East Midlands East Maths Hub (The Minster School, Southwell, Nottinghamshire)
East Midlands South Maths Hub (Beauchamp College, Oadby, Leicestershire)

East of England Region:

Enigma Maths Hub (Denbigh School, Milton Keynes)
Cambridge Maths Hub (Comberton Village College, Cambridge)
Matrix Essex and Herts Maths Hub (The Hertfordshire and Essex High School & Science College, Bishop's Stortford)
Norfolk and Suffolk Maths Hub (Sir Isaac Newton Sixth Form, Norwich with Kesgrave High School, Ipswich)

South East Region:

Bucks, Berks and Oxon Maths Hub (Wycombe High School, High Wycombe)
Surrey Plus Maths Hub (St John the Baptist Catholic Comprehensive School, Woking)
Solent Maths Hub (The Mary Rose Academy, Portsmouth)
Sussex Maths Hub (St Paul's Catholic College, Burgess Hill)
Kent and Medway Maths Hub (Sir Joseph Williamson's Mathematical School, Rochester)

London Region:

London North East Maths Hub (Elmhurst Primary School, Newham)
London Central and NW Maths Hub (The St. Marylebone CE School, Westminster)

London Central and West Maths Hub (Fox Primary School, Kensington & Chelsea)

London South West Maths Hub (Belleville Primary School with Chesterton Primary School, Wandsworth)

London Thames Maths Hub (Harris Federation, Croydon)

London South East Maths Hub (Redriff Primary School with City of London Academy, Southwark)