

Secondary Mastery Specialist Programme

2019/20 Cohort 4 - Information and Application

Following the success of the secondary Mastery Specialist programme thus far, 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 the development of teaching for mastery in the lead teacher's classroom, across their mathematics department and, later on, to facilitate and support the development of 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 teaching for mastery, a pedagogical approach which aims to develop a deep and connected understanding of mathematics for all learners, enabling them to enjoy mathematics, demonstrate high achievement (including in examinations), giving them a sound basis for future learning and preparing them for their future employment.

Several cohorts of Primary Mastery Specialists have completed a development programme and are now each leading Work Groups involving other primary schools and at secondary there are already 3 cohorts of Mastery Specialists participating in a three year programme. 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](#). The government has committed substantial funding to support the expansion of teaching for mastery in the coming years. Funding is now available to support the development of a fourth cohort of Secondary Mastery Specialists.

What will participation in the programme involve?

Participating schools will nominate a lead teacher to develop as a Mastery Specialist and follow a three year programme beginning in the Autumn term of 2019. During the first year, the emphasis will be on the lead teacher developing her/his knowledge, understanding and skills of teaching for mastery and the work will amount to 15 days' worth of time, funded at £200 per day. It will include the following activities and tasks:

- 4.5 days attending 3 central residentials (dates and locations to be confirmed)
- 10.5 days personal development to include:
 - working on their own classroom practice
 - meeting with the hub's Secondary Teaching for Mastery Lead and wider team
 - visiting classrooms (Primary and/or Secondary) to see teaching for mastery in action
 - attending Shanghai Showcase events (where possible).

The head teacher, or their representative from the school's senior leadership team, will also be required to attend a half day launch alongside the lead teacher at the first residential.

In the academic year 2020/21, the participants will continue to develop their own classroom practices but with a significant emphasis on developing the knowledge, skills and understanding of all members of the department and to explore, develop and implement department-wide approaches, structures and systems which support teaching for mastery. This work will amount to 15 days funded at £200 per day and will include the following activities and tasks:

- 3 days attending two residentials (dates and locations to be confirmed)
- 8 days development including:
 - working within their own department
 - liaising with the hub's Secondary Teaching for Mastery Lead and wider team
 - visiting classrooms to see teaching for mastery in action
 - attending Shanghai showcase events
- 4 days participating in the NCETM Accredited PD Lead programme and acquiring accredited PD Lead status to support the development of their own skills in leading professional development. (If the participant is already an NCETM Accredited secondary* PD Lead, these days will be spent doing wider work related to teaching for mastery as directed by the Secondary Mastery Lead).

** If the lead teacher has already gained PD Lead accreditation in another phase, he/she will need to discuss this with the NCETM central team during the first year of the programme.*

In the academic year 2021/22, the Mastery Specialists will work with colleagues from two other schools, to enable them to each embed teaching for mastery approaches in their own departments.

This is a fantastic opportunity for participants to improve maths education through teaching for mastery within their schools, and also to develop their professional development and leadership skills.

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 acquire 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 teaching for mastery
- Students 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), show a positive attitude towards mathematics, enjoy learning the subject and demonstrate a growth mindset.

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
Qualified Teacher Status	Additional Status, e.g. Lead Practitioner; Mathematics SLE; NCETM Accredited PD Lead
Employed as a teacher in a state-funded 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, and will also attend a half day launch at the start of the programme.

What is the funding for the programme?

In 2019/20, the Maths Hub will cover the cost of the 15 days' release time for the nominated lead teacher, amounting to £3000 per school in total. In 2020/21, the Maths Hub will cover the cost of the 15 days' release time for the lead teacher (£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 2021/22, the Maths Hub will cover the cost of 15 days' release time at £350 per day (£5250) to support two other departments. In addition, £2000 will be paid to each department working with the specialist to support their developments.

How do schools apply to take part?

Applicants should complete the application form below and email it to the NCETM (mathshubs@ncetm.org.uk) by 5pm on Friday 26th April 2019. 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 on Friday 26th April 2019.
- Applicants will be notified by 10th June 2019.

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

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

QTS status	Yes/No	No. of years teaching	
Likely teaching groups 2019/20			
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, and will attend the half-day launch alongside the lead teacher.

Nominating head teacher/senior leader	<i>Signature of nominating head teacher/senior leader</i>
Head of department	<i>Signature of head of department</i>
Lead teacher applicant	<i>Signature of applicant lead teacher</i>

(Note: When the form is emailed, 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)