

# Summer Newsletter

## North West Three Maths Hub

### Northern Powerhouse

#### Extending the Maths Hub Network

Following a recent review of Maths Hubs capacity in the North West, the DfE is now seeking to establish two new Maths Hubs for the North West Region. The two Maths Hubs will have responsibility for:

- the Cheshire area
- the central Lancashire area

Leading a Maths Hub is a significant and demanding system leadership role and so a new process is going to be used to establish the new Maths Hubs. Applications need to be submitted to the NCETM by Monday 18 June.

#### The Maths Hub development process:

The new Maths Hubs will be developed over a two-year period, with the future hub leadership initially working within existing Maths Hubs. The fully independent Maths Hubs will be established by 2020/21. For the first two years, the future Lead Schools will provide Assistant Maths Hub Leadership (AMHL) within the North West Three Maths Hub (Cheshire area hub) and the North North West Maths Hub (central Lancashire Area hub).

At this stage, the DfE (working in conjunction with the NCETM) is seeking to identify three schools/colleges in each of the two areas, who show the potential to lead a Maths Hub. These three schools will initially act as AMHLs, but will, after two years and subject to review, form the leadership team for the new Maths Hub.

The Cheshire area Maths Hub would have responsibility to support schools in the following local authority areas/districts: Wirral; Cheshire West and Chester; Cheshire East; Halton.



Continuing Professional Development Standard

National Centre for Excellence in the Teaching of Mathematics



### Assistant Maths Hub Lead- NEW ROLE to support NW Maths Hub 3 and creation of the network

The NW Maths Hub 3 wants to extend and strengthen its work supporting schools in Liverpool and Cheshire. We are therefore now seeking to recruit an Assistant Maths Hub Lead (AMHL) for NW Maths Hub 3 to join our established leadership and management team, initially for 2018/19, after which it will be reviewed.

#### The role

The Assistant Maths Hub Lead will work as part of the Maths Hub Leadership and Management Team, normally for the equivalent of 1 - 1.5 day per week, with a particular focus on Liverpool and Cheshire areas.

The work would involve working closely with local partnerships and:

- identifying, recruiting, developing and supporting local leaders of maths education to work with the Maths Hub, for example as Work Group Leads or Mastery Specialists
- acting as the public face of the Maths Hub, communicating and promoting the Maths Hub's vision and ambition for maths teaching and maths teachers and the results of its work
- identifying leading schools and colleges that demonstrate effective practice and seeking to develop partnership
- developing a strategic understanding of the improvement needs of schools in the hub area
- supporting recruitment of desired number and type of schools to the Maths Hub activity
- ensuring high quality planning and evaluation of the Maths Hub's work

The AMHL's school or college will receive a grant of £14,000 from the Maths Hub.

# EYFS - Northern Hubs Leading the Way

## EYFS Professional Development Lead Programme (PDLs)

The NCETM PD Lead Development and Accreditation (PDLDA) programme is designed specifically for such people and is part of the Maths Hubs Network's strategy to build up a group of Professional Development Leads who can support the work of hubs.

The programme consists of three face-to-face days (two days in Summer term 2018; one day in Autumn term 2018) and a series of in-setting and independent planning and study tasks spread over the academic year. It is designed for colleagues who have some existing experience as a PD Lead either within their own setting or organisation, or more widely, and who wish to develop further in this role. Participants in this programme will also be funded to work with local EY practitioners across their hubs for 40 additional days and so must ensure that they can be released to do this.

### 3 PDLs were successfully appointed to work on behalf of NW Maths Hub 3:

Gemma Edge - Greenbank Primary School- Liverpool

Janine Dixon-Gibbon - St John Fisher Catholic Primary School- Halton/Widnes

Nicola Fish - Kew Woods Primary School- Southport (Sefton)

**The 3 PDLs will train 30 schools; across the NW region to develop the Leadership Capacity for Early Years Mathematics** beginning in summer term 2018, the ten most northerly Maths Hubs (those operating in the Northern Powerhouse) will be providing training and bespoke support for settings in priority areas in their region to support leadership teams with reviewing, analysing and developing their provision for mathematics.

#### Activity will include:

- Leaders meet with an Early Years PD lead to identify priorities for their mathematics provision
- PD leads with setting-based leaders will develop a programme to support the leadership capacity in their specific setting
- Leaders will access specific support sessions either individually or as part of a cluster that supports them with priority actions (and identify specific practitioners that may benefit from the content of specific sessions)

#### Benefits for participating settings:

- High quality support for professional development for the leaders of settings
- Access to specific local workshops that will support with developing understanding around key emerging themes
- On site visits to support and develop the capacity of the leadership team
- Setting working with a PD Lead

22 primary schools (including Nurseries) and 8 PVLs have been selected for 2018-19.

## EYFS - Subject Knowledge development – NW Maths Hub 3 pilot schools

The programme will support Early Years practitioners with developing their mathematics specific knowledge and pedagogy. This programme will focus on mathematics with children aged 3-5.

Beginning in the Summer Term 2018 and continuing to Easter 2019, each hub will accept two settings to engage in the following activities.

### The two setting that are involved in the pilot are:

**Chorley New Road, Bolton**

**St Georges, Wirral**

#### The programme consists of:

- Leaders and practitioners attending one, central day at the start of the programme, which will focus on the key principles of effective mathematics practice in Early Years and one day at the end of the programme to share findings and identify next steps
- Practitioners (the same person to attend each day) to attend an additional four days of central training
- The face to face days will focus on the key concepts in Early Years mathematics
- Leaders and practitioners to fully engage with the gap tasks set from each of the training days
- Practitioners to take part in visiting local settings to analyse practice

# Primary and EYFS National and Local Projects

**‘Teaching for Mastery’ – NW Maths Hub 3 supporting schools to develop an understanding of Mastery and working towards achieving this for all!**

## Mastery Readiness

The programme, led by a Mastery Readiness Lead- Claire Martin will run from summer 2018 to Easter 2019. 6 schools from Halton have been selected to be involved in the programme:

Our Lady Mother of the Saviour, Moore Primary, Moorfield Primary, Pewithall, St Gerards and Hale CE.

The maths lead and another teacher will attend training events throughout the year, averaging out at two per term. There will be two visits per term from the Mastery Readiness Lead to offer tailored advice and support.

### Benefits

- The training includes an introduction to mastery, how to prepare a school to be ready to implement teaching for mastery, initial steps, both in leadership and in classroom teaching, and strategies to overcome potential barriers.
- Support for the head teacher in addressing leadership issues related to mathematics and contributing to raising standards.
- Opportunity to work closely with other schools also developing mastery readiness.

Cohort 2 schools will be selected to start in autumn 2018-19. This round will be open to ALL Knowsley schools not involved in any Mastery programmes.

## Recruitment of more primary schools to Teaching for Mastery Programme

The NCETM has announced details of the next round of recruitment of schools to the funded Teaching for Mastery Programme, run by Maths Hubs across England. This year, a total of 1700 primary schools are sought. It is a year-long programme of professional development, led by trained Mastery Specialists. Each school will belong to a Maths Hub Work Group, consisting of six or seven primary schools, and led by a Mastery Specialist from a nearby school.

As well as receiving this free training, the recruited schools will receive financial support to release teachers for workshops, and towards buying textbooks. North West Maths Hub 3 has recruited 75 school to begin in Autumn 2018.

## Maths Mastery Specialist Teachers

16 Mastery specialist teachers are currently working on behalf of NW Maths Hub 3 supporting 173 schools on their Mastery Journey via the National TFM programme. Cohort 3 Mastery specialists have just started supporting their pilot schools.

Congratulation to the Cohort 4 Mastery Specialists that will work on behalf of NW 3 – all specialists will train in the autumn/spring term 2018-19 and support WG schools as part of the national roll out from summer 2019.

Rosemary Ross, Wirral.

Lesley Plant, Liverpool.

Lisa Clegg, Wigan.

Hannah Yarranton, Cheshire.

Darren Partington, Knowsley.

## Excellent Maths teacher programme

We have now trained 110 teachers/Maths leads from across the NW in supporting them to build leadership capacity within their own school and beyond. Learning from the programme has been used to develop the participant and other teachers within their context ultimately impacting positively on them as a leader, staff in the school and pupil outcomes and attitudes to maths. The programme has proven to have significant impact for the staff receiving the training in terms of personally and professionally and has ultimately impacted on improving the provision for pupils that they teach.

We will run the programme again in 2018 - 19 and will have 40 places available. This is an extremely popular programme and places are going fast. Please email Lisa Bradshaw if you or a member of your staff is interested in being part of this.

The overall aim of the programme is to share and develop effective mathematics practice across the NW providing a school led approach to improving teaching and leadership of mathematics.



## EYFS - Developing Mathematical fluency to raise expectation/number focus and progression (local project)



Wave 2, 3 and 4 schools continue with the programme this year. All schools receiving the programme are finding this extremely valuable.

Cohort 2 delegate - Quote of the day: *"I feel as though you have helped me to put on my magic maths glasses - I can see the maths opportunities in everything"*

A significant amount of time has been spent by a number of EYFS practitioners on developing materials through classroom research and practice. An approach that is based on enrichment in conceptual understanding (rather than acceleration through mathematical content) has been designed and trialled by three teachers.

Research has been done into children's accumulation of early number concepts, with particular emphasis placed on the work of American based researcher Arthur Baroody.

Within the materials designed, all children are expected to progress at a broadly similar pace through content, and differentiation is done through the processes and products expected, as well as through the development of thinking skills. Informally, the approach has been identified by all involved as being highly effective, with a particular impact seen amongst struggling learners. For the next phase of the project, 20 schools will be invited to join and trial some of the materials.



This programme has been successfully rolled out to over 60 settings and is now on phase 5 of the roll out to begin in spring 2019.

**A briefing session will be held on: Thursday 12th July, 1-3pm at The World of Glass, Chalon Way E, Saint Helens WA10 1BX.** We are inviting all Head Teachers and the EYFS teachers/leads to find out more about the project and how this will be rolled out.

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## I Can Calculate... EYFS to Y1 Focussed (local project)

This project aims to help key groups of children to progress from using counting-in-ones to calculating strategies in early mathematics. We will identify the 'number sense relationships' that children must build to be able to manipulate numbers later; we will also explore how different calculation strategies are introduced to children. By developing a strong number sense and learning to manipulate numbers, children will experience early maths as finding patterns, being creative and thinking deeply, laying the groundwork for their future mathematical success.

In 2016-17, 10 schools completed the EYFS Developing number sense project. These schools are now in the final term of this programme as a progressional project to aid transition it has provided support for these members of staff to move from 'counting into calculating' when appropriate. FS and Y1 staff have all been involved in this project. This innovation Work Group will be extended and offered to all schools in autumn 2018-2019. **A head teacher/SLT briefing is planned for: 19<sup>th</sup> June 2018 at The World of Glass, St Helens. Schools will be given the opportunity to find out more about the programme, hear from schools that have been part of the initial roll out and be given the opportunity to sign up.**

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## EEF - Y2 Reasoning Project (collaborative project)

The project, using materials designed by researchers at Oxford University and funded by the Education Endowment Foundation (EEF) is being run in eight Maths Hubs areas and coordinated by the NCETM. NW Maths Hub 3 is one of the eight Maths Hubs participating.

An earlier EEF trial of the programme showed a positive impact on pupils' numeracy ability.

In this larger scale project, at NW Maths Hub 3, we recruited 20 primary schools from across the NW, to participate in the project, which ran during the school year 2016/2017. The 20 schools that have been selected, half have been chosen at random to receive the teaching intervention, the other half will carry on teaching as usual. This group received training and the materials for use during the school year 2017/2018. The impact of this trial will be shared in Autumn 2018-19.



Education  
Endowment  
Foundation

## Intervention in a Mastery Context in association with Edge Hill ECC Team (local project)

This term we are extending the programme to Halton and Cheshire areas. We will be selecting 12 schools from each area.

NW Maths Hub 3 in association with Edge Hill University- ECC Team has now trained 74 primary schools involving 194 participants in the Intervention In a Mastery Context programme (IMC).

This involved the teacher and TA, associated with the same class supporting each other to diagnose the mathematical gaps that existed within their class and being taught how to 'plug the gaps'. This intervention programme is written as a 'Keep up not catch up' intervention programme. As a result, the programme was 'tweaked' based on research and findings from previous cohorts. In 2018-19 we are targeting schools in the Halton/Runcorn/Widnes and Cheshire areas and can offer 12 schools the chance to be part of this to start in September 2018.

**The expectation of the programme:**

- The teacher and TA, working in the same year group, will attend ALL 3 days of face-to face training.
- It is aimed at Y3, Y4 and Y5 teachers/TAs.
- After each face-to face day the Teacher/TA will receive a ½ day release session to complete the diagnostic activities.
- Select a class that has the highest % of children below age- related expectations
- Ideally the TA will be strong and have some experience of delivering intervention, however this is not essential.

This now includes: 2x Maths PDL visits to your school and pre/post assessments - NEW for 2018-19 roll out!

**We are offering all schools the chance to attend a FREE briefing on:**

Monday 9th July, 9-11am at The Halton Stadium

or

Thursday 12th July, 9.00am-11.00am, Hallmark Hotel Manchester, Stanley Road, Handforth, Cheshire, SK9 3LD.

Target audience: Head Teacher/SLT and Maths Leads.

To book a place at the briefing please contact:

[sarah.makin@three-saints.org.uk](mailto:sarah.makin@three-saints.org.uk)

[paula.foster@three-saints.org.uk](mailto:paula.foster@three-saints.org.uk)

Autumn 2018-19 will focus on Knowsley and Liverpool areas.



## KS2-3 Transition

This programme includes: 3 face-to-face training days and 2 school visits. The programme is aimed at Y5, 6, 7 and 8 practitioners. The sessions will be delivered at a central venue drawing on primary and secondary schools from across Wigan, St Helens, West Lancashire, Sefton, Wirral and Manchester. The programme is being facilitated by a highly experienced Secondary maths lead - Lindsay Porter and Primary Maths SLE- Mary Anne Ramsbottom.

**The final session will take place on:** Wednesday 13th June - 1-4pm (plus ½ day school based visit)

**Sessions will include:**

- Sharing of work samples- cross phase moderation/standardisation- expectations explored
- Learning walks- school based focused visits
- Agreeing common, precise mathematical language
- CPD opportunities for the development of teacher subject knowledge and activity ideas around the four areas of calculation, algebra and fractions
- Teaching for Mastery- how to incorporate the 5 big ideas- exemplification and expectation
- CPA models used and scaffolds explored to ensure appropriate support and challenges is being provided across the two key stages
- Identifying gaps and next steps.

**NEW RESOURCE - to support the EEF Improving Maths in Key Stages 2 & 3 guidance report, they've just published a Red Amber Green (RAG) self-assessment guide. It sets out what 'ineffective', 'improving' & 'exemplary' practice can look like for each recommendation: [buff.ly/2F6OEV4](https://buff.ly/2F6OEV4) This will be used as part of the project.**

**This workgroup will run again in 2018-19 with a focus on Halton, Cheshire and Knowsley.**





## Primary teaching assistant SKE development Work Groups

To develop the subject lead and TA at the same time to support and improve subject and progressional understanding. Including effective deployment, mathematical language and questioning. These sessions will take place on:

**Session 1** - Thursday 20th September 2018, 9.00am to 3.00pm

**Session 2** - Thursday 16th October 2018, 9.00am to 12.00pm

**Session 3** - Thursday 22<sup>nd</sup> November 2018, 9.00am to 12.00pm

To reserve a place and find out more please contact: [paula.foster@three-saints.org.uk](mailto:paula.foster@three-saints.org.uk)

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## Developing Local Expertise across the Teaching Schools Network – partnership collaboration

**SLE (Specialist leaders in Education) training programme (for newly appointed SLEs working in both primary and secondary phases)**

**The Programme will include 3 full days of CPD/Networking across the year:**

Autumn 2018—Halton Venue

Spring 2019—St Helens Venue

Summer 2019—Knowsley Venue

**Further details to be confirmed.**

**Themes to include:** Current updates, teaching for mastery, school to school support preparing a mathematical diagnostic, developing reasoning, meeting the 3 aims of the NC, coaching, representation and structures in maths, progression in problem solving, leading CPD in schools, mathematical thinking, developing and securing fluency, professional learning conversations, SKE including mathematical themes i.e. fractions, developing and promoting maths across the curriculum, assessment/moderation and evaluating impact and much more.....

**The Maths SLE programme will be accredited by Maths Hub NW3. This does mean that when Maths SLEs, leading on school improvement in schools on behalf of your teaching school, will have accessed an accredited programme to ensure they remain high quality and current in sharing good practice.**

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## Maths Through Story

**NW Maths Hub 3 are delighted to welcome to 'Maths through Story' to the North West.**

Maths Through Story sets out to help mathematics learners around the world develop their conceptual understanding in mathematics and to help them foster positive attitudes towards the subject through the power of storytelling.

**Teachers are invited to attend the following workshops:**

Date: Tuesday 3rd July 2018

Target audience: 9.00-12 noon- EYFS and KS1 teachers

1.00-3.30pm- KS2 teachers

Venue: The World of Glass, Chalon Way E, Saint Helens WA10 1BX.

Cost: £70.00 including all course materials and tea/coffee/biscuits.



**Focus of the sessions:**

In this half-day workshop, participants will explore a range of story picture books that can be used to enrich EYFS, KS1 and KS2 mathematics teaching and learning. The participants will also consider which selection criteria should be taken into account when selecting suitable mathematical story picture books. The participants will then learn about a pilot research project which sets out to explore gender representation in mathematical story picture books and how they need to be mindful of diversity when selecting which books they want to use in their teaching. The bulk of the session will then be spent on having the participants work in small groups to design a mathematics teaching and learning activity based on a story picture book of their choice. Finally, the participants will also be shown how they can continue to receive support through the MathsThroughStories.org website as well as how they can be part of the initiative (e.g. contributing lesson ideas).

This workshop will be useful for both participants who are new to the idea of using story picture books in mathematics teaching and those who have had some experience of using the resource.

To book a place on this training please contact:

Sarah Makin - [sarah.makin@three-saints.org.uk](mailto:sarah.makin@three-saints.org.uk) or Paula Foster - [paula.foster@three-saints.org.uk](mailto:paula.foster@three-saints.org.uk)

Places will be allocated on a first come, first served basis. Book now to avoid disappointment.

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## Primary Maths CPD opportunities: 2018 –19

### Coming up in the Autumn term:

#### Differentiation Within a Mastery Curriculum

KS1: Thursday 11<sup>th</sup> October 2018 9.00-3.30pm

Lower KS2: Thursday 15<sup>th</sup> November 2018 9.00-3.30pm

Upper KS2: Tuesday 20<sup>th</sup> November 2018 9.00-3.30pm



#### Teaching Times Tables - Preparing to Test

Lower KS2: Wednesday 26<sup>th</sup> September 2018 9.00-12 noon

Upper KS2: Wednesday 26<sup>th</sup> September 2018 12.30-3.30pm

#### Catering for Higher Attaining pupils (Rapid Graspers) in a Mastery Context

KS1: Thursday 27<sup>th</sup> September 2018 9.00-3.30pm

Lower KS2: Tuesday 16<sup>th</sup> October 2018 9.00-3.30pm

Upper KS2: Tuesday 9<sup>th</sup> October 2018 9.00-3.30pm



#### Planning to Progress and Assess Mathematical Lesson Design - Year group training Part 1

Y6 : Monday 8<sup>th</sup> October 2018 - 9.00-3.30pm

Y5: Wednesday 17<sup>th</sup> October 2018 - 9.00-3.30pm

Y4: Tuesday 30<sup>th</sup> October 2018 - 9.00-3.30pm

Y3: Thursday 1<sup>st</sup> November 2018 - 9.00-3.30pm

Y2: Tuesday 6<sup>th</sup> November 2018 - 9.00-3.30pm

Y1: Tuesday 13<sup>th</sup> November 2018 - 9.00-3.30pm

EYFS: Tuesday 27<sup>th</sup> November 2018 - 9.00-3.30pm

(PART 2 to follow in the spring term building on learning from these sessions)

## Primary Maths Subject Leader Networks :

### Final session for 2017-18:

**Friday 22nd June 2018 9.00am – 3.30pm at St Helens Chamber**

Ensuring Challenge for Rapid graspers, Effective mathematical transitions, Meeting the needs of all learners- providing 'keep up, not catch up' interventions, plugging the gaps to ensuring curriculum needs are met, Mathematical updates and current thinking.

### 2018-19 Network:

**Friday 21st September 2018 9.00am – 3.30pm at St Helen Chamber**

Implications of 2017-18 tests

Supporting mathematical lesson design- developing long and short terms plans.

Mathematical updates and current thinking.



# Secondary National and Local Projects

## Secondary Maths TSST in collaboration with Liverpool Hope University

An exciting offer for serving and returning secondary teachers who are moving into teaching mathematics, but do not have a previous mathematical qualification. It will enable staff to develop a deeper knowledge and understanding of all aspects of mathematics.

St Helens TSA has successfully run this project since 2014-15 with 83 delegates completing the training programme so far. This innovative Subject Knowledge Enhancement (SKE/TSST) course is delivered in partnership with experienced staff from Rainford High School working to support the Maths Hub alongside extremely experienced staff from Liverpool Hope University. In

2018-19 we are looking to recruit 30 candidates.

Please see this flyer <https://goo.gl/PJ4Eb1> for more details, including a proposed schedule for the training. All school based sessions will be delivered at Rainford High School.

Expressions of interest are now being taken to start training in Sept 2018. We have 30 places available with two recruitment windows (October and January starts). **This programme is free of charge.** Please contact: Lisa Bradshaw for further details.

## Secondary Excellent Maths Teacher Programme NEW for 2018-19

### Who is it for?

These sessions are aimed at excellent maths teachers who have the potential and drive to achieve excellence in maths practice and the ability to develop others.

### Sessions Include:

4 full day sessions to include:

- What does outstanding maths practice look like?
- Understanding how practice has changed at Key Stage 2 and the need to build on this at Key Stage 3
- Developing problem solving, reasoning and fluency throughout Key Stages 3 and 4
- Effective monitoring to determine impact
- Tracking of progress and skills to inform action planning and next steps
- Exploring and developing assessment
- Providing effective feedback
- Lesson structures, planning and questioning

Delegates will be involved in 3 'Gap tasks' linked to practice in their own schools.

### Key Dates:

Day 1- Thursday 27th September 2018

Day 2- Wednesday 28th November 2018

Day 3- Tuesday 5th February 2019

Day 4- Monday 25th March 2019

All Sessions will take place from 9.00-3.30pm at: Wrightington Country Club, Mos Lane, Wrightington, Wigan WN6 9PB.

See here further information: <https://goo.gl/pwSzdm>

**Other secondary priorities for 2018-19 include:** Challenging topics at GCSE and Supporting Post-16 GCSE Resits





## Teaching for Mastery NCP - Mastery Lead Teachers and Work Group Schools

The Secondary Masters who are leading the national programme on behalf of NWMathsHub 3 are as follows:

### Cohort 1:

Alex Cooper - Rainford High School, St Helens  
Nicole Speer - Lord Derby Academy, Knowsley  
Rebecca Ward - Deyes High School/ Lydiate Learning Trust High School, Liverpool  
Matthew Thornley - Hawkley Hall High School, Wigan  
Lindsay Porter - Secondary Maths Hub Lead is coordinating this work.

### Cohort 2:

Ruth Swietlik - Byrchall High School, Wigan  
Liz Cowdell - St Hilda's CE High school, Liverpool  
Amanda Sharples - Up Holland High School, Lancashire

The work group schools are involved in a programme of support and development work involving all teachers from the lead and participating schools designed to introduce and encourage a teaching for mastery approach across the mathematics departments in those schools. Activities will include the following: collaborative planning workshops, TRG-style lesson observations and dialogue in each of the "Mastery Specialist" schools during the year, visits between WG schools to support sharing of practice, visits to primary Mastery Specialist school for TRG-style lesson observations and occasional wider open-lesson events for other interested schools.

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

Following the success of the first two 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 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 our Maths Hub area.

### What will participation in the programme involve?

In the academic year 2018/19 participating schools will nominate a lead teacher to develop as the Mastery Specialist. During this first year, the emphasis will be on the lead teacher developing her or 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 and will include the following activities and tasks:

- 4.5 days attending 3 central residentials (dates and locations to be confirmed);
- 11.5 days in-school and local development, including:
  - o working on their own classroom practice
  - o meeting with the Hub's Secondary Teaching for Mastery Lead and wider team
  - o visiting classrooms (Primary and Secondary) to see TfM in action
  - o attending Shanghai Showcase events

### 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, 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 to apply- Applicants should complete the application form and e-mail it to the NCETM ([mathshubs@ncetm.org.uk](mailto:mathshubs@ncetm.org.uk)). by 5pm on Thursday 7th June 2018. (deadline extended)**

**We are looking to recruit a further 4 Mastery specialists. We would particularly welcome applicants from Cheshire, Wirral and Halton areas.**

## Secondary Maths CPD Network (Whole school department opportunity)

As a result of extremely positive feedback from the previous 2 years, the secondary maths CPD network will continue in 2018-19. Whole Secondary Maths departments meet on a half termly basis to explore key mathematical themes. All themes have been selected based on need. Secondary Maths departments from across the NW have had the opportunity to engage in high quality CPD from experts in their field. It has provided an opportunity to network and share good practice. This network has been a huge success with over 25 secondary maths departments attending on a regular basis.

The next session is **Monday 9<sup>th</sup> July at Rainford High School**

**Focus:** KS3- how to sustain and build on KS2 expectations, making connections between content from KS2-3 and to look at sequence of learning between KS2-3 raising expectations and providing challenge at KS3.

**Full programme details:** <https://goo.gl/Uhb24y>

We are in the process of confirming the programme for 2018-19. Further details to follow shortly.

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## Mathematical thinking for 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. Many departments will be considering not only the long-term development of these skills across KS3 and into KS4, but also the immediate needs of current KS4 pupils facing the challenges of the new GCSE. This Work Group aims to support both these aspects through professional development activities focusing on practical and accessible classroom-based approaches. Participation also offers the opportunity to develop departmental professional development processes and produce longer-term improvement plans.

**Who is this for?** All secondary schools wishing to begin or continue a programme of professional development to address the teaching and learning implications of the new curriculum and GCSE. Ideally, each school will send two members of department (at least one of whom is experienced and has some leadership responsibility) to maximise the impact of the professional development within the department.

**What is involved?** 4 x half 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. There will be an evaluation process focusing on the impact of activities on pupils and the wider department.

Recruitment rounds for this project will be opened in September 2018. We would particularly welcome applicants from Halton and Cheshire.

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## Congratulations

Congratulations to **Mary Stevenson**. Mary has represented HEI, with a particular focus on secondary and Post 16 maths, on the NW 3 Maths Hub Executive Board. She has also led on the TSST secondary maths programme.

Mary has been appointed as a regional lead for NCETM and will work closer with the Maths Hubs network.



Do you know a school teacher whose students would benefit from SUPER fun maths sessions??

★ **Call on:**  
**01744 776110**  
to book for  
**FREE today!**

The poster features a yellow background with stars, swirls, and a magic wand with colorful sparks.



"Contact Brian today to book your Magical Maths extravaganza . . . for FREE!!"

★ **Brian Banks**  
Magical Maths in Halton, Sefton, St Helens and Warrington (and beyond!!!)

T: 01744 776110  
M: 07951426266  
E: [brian@magicalmathsclub.com](mailto:brian@magicalmathsclub.com)  
[www.magicalmathsclub.com](http://www.magicalmathsclub.com)

The poster features a yellow background with stars, swirls, and a logo for 'Professor Popenstufden's MAGICAL MATHS'.

## Secondary Heads of Department Meetings

Lindsay Porter (AQA associate and Secondary Maths lead) will continue to deliver this network in St Helens and Wigan. We now have 25 HOD regularly attending. This is an opportunity for all Heads of departments to come together to review and share approaches to current national and local initiatives.

This is an opportunity for all **Heads of departments** to come together to review and share approaches to current national and local initiatives.

Summer Term sessions will take place on:

**St Helens/Knowsley/Sefton and surrounding LAs:** Friday 29th June 2018, 1.30-3.30pm Rainhill high School, Warrington Rd, Rainhill, Prescott L35 6NY

**Wigan/Bolton/Warrington and surrounding LAs:** Wednesday 4th July 2018, 1.30 -3.30pm, Byrchall CPD Centre, Warrington Rd, Ashton-in-Makerfield, Wigan WN4 9PQ

**Wirral and surrounding LAs:** Tuesday 3rd July 2018, 1.30-3.30pm, Prenton High School for Girls, Birkenhead CH42 6RS

Details: <http://bit.ly/2ArYy1i>

Offer for 2018-19 to follow

## Secondary Maths NQT Programme

A key aim of this work group is to support teachers new to the profession to ensure they are providing a strong curriculum, teaching and professional development practices that can be shared amongst the departments they are working in and across the Hub region. This Work Group has run successfully for the past two years and we intend to review and evaluate this programme on an annual basis to ensure we are continuing to meet the needs of all Maths secondary NQTs across the patch.

### Trainees will:

- Become more confident when planning and organising effective mathematical opportunities
- Have the opportunity to network with colleagues that are new to the progression
- Learn how to manage a smoothly run maths classroom ensuring all learners are engaged
- Improve progressional understanding
- Have an improved understanding of what depth looks like leading to mastery
- Create and share good quality maths resources
- Motivate pupils to enjoy maths
- Learn to embed problem solving and develop reasoning opportunities in every lesson
- Reflect and evaluate practice ready to start their RQT year

This programme is being offered again in 2018-19.

Details: <https://goo.gl/ay2Wqm>

## Useful links include:

NCETM: <https://www.ncetm.org.uk/>

North West 3 Maths Hub website: <http://www.nwmathshub3.co.uk/>

Nrich: <http://nrich.maths.org>

Maths No Problem: <http://www.mathsnoproblem.co.uk/>

Maths Associations: <http://www.nwmathshub3.co.uk/associations.html>

FMSP: <http://furthermaths.org.uk/>

CMSP: <http://www.core-maths.org>

MEI: <http://www.mei.org.uk/>

Power Maths: <https://www.pearsonschoolsandfecolleges.co.uk/Primary/Mathematics/AllMathematicsresources/Power-Maths/Power-Maths.aspx>

AMSP: <http://furthermaths.org.uk/amsp>



# Post-16 National and Local Projects

## CMSP – Core Maths Support Programme

Why Core Maths? Do you want to find out more about this qualification? Is it suitable for your school and your students?

- Gain a secure knowledge of the Core Maths curriculum and exams and understand the differences between different exam boards.
- Learn more about the strategies to use in your schools and colleges regarding how Core Maths can practically fit into the post-16 curriculum, how to staff it etc. by exploring case studies and hearing from schools and colleges who are already teaching it.
- Understand the philosophy of Core Maths – Maths in a real life context through problem solving.

Don't hesitate in contacting Catherine Van Saarloos, [Catherine.VanSaarloos@liv-coll.ac.uk](mailto:Catherine.VanSaarloos@liv-coll.ac.uk) (Post 16 Lead).

The intention is that the number of schools delivering core maths will increase.

support  
programme  
[core:maths]

## In-School 'Core Mathematics Roadshow' - Enrichment Opportunities for Y10 students

FREE 1-hour enrichment sessions held in your school, targeting Y10 students working towards GCSE grades 4 – 6. Focus on practical and real-world mathematics applications. For schools who are considering offering the Level 3 'Core Maths' qualification post-16.

- To help develop students' practical and real-world problem-solving skills.
- To help explain to schools the benefits of post-16 mathematics study, especially the Level 3 Core Mathematics qualification: <https://www.stem.org.uk/core-maths>

Further details:

Alongside the enrichment session with students, we would welcome the opportunity to spend some time with HoD / members of dept / SLT to discuss whether offering the Core Maths qualification in your school in your school might be an option [Note: we DON'T promote the qualification directly to students]

Booking a visit:

Please contact Catherine van Saarloos [catherine.vansaarloos@liv-coll.ac.uk](mailto:catherine.vansaarloos@liv-coll.ac.uk) (Post-16 lead for NW Maths Hub 3), or  
Martin Bamber [m.bamber@liverpool.ac.uk](mailto:m.bamber@liverpool.ac.uk) (FMSP Area Co-ordinator, NW)

## Making Sense of Maths Programme

Following the success of last year, Maths Hubs NW1 and NW3 are delighted to be hosting 'Making Sense of Maths', a **FREE 5 day course running throughout 2018 and 2019**. This is a transformative course which has received great feedback and is suitable for teachers of GCSE Resit at colleges, those who are teaching students at the 3/4 borderline in schools and teachers in PRUs.

For further details please contact: [Catherine.VanSaarloos@liv-coll.ac.uk](mailto:Catherine.VanSaarloos@liv-coll.ac.uk)

## Local leaders network

Facilitated by Post 16 Lead - Catherine Van Saarloos [Catherine.VanSaarloos@liv-coll.ac.uk](mailto:Catherine.VanSaarloos@liv-coll.ac.uk)



## Post 16 Priorities for 2018 -19

- To develop a **Core maths network of teachers** to meet to share resources (aimed at teachers that sign up for AMSP courses for Core maths that we anticipate will run from September)
- To **Strengthen partnerships with all Teacher Training Providers** in our region and set up half day workshops for student teachers to get training on all Level 3 maths options open to students.
- Continue with **Making Sense of Maths** development programme.
- Continue with **Foundation Network meetings** that will run alongside Higher Tier Network meetings (aimed at those new to teaching GCSE or GCSE resit)
- Offer **in house CPD for large colleges** in priority areas for GCSE Resit
- **Developing A-level Teaching**
- **Developing parents as partners** - NEW innovation project

Further details to follow. For more information please contact Catherine Van Saarloos

Congratulations to **Catherine Van Saarloos** who has been appointed as Core Maths Development Coordinator with MEI. Catherine will take up post in September.

## Recruitment Opportunity - New Level 3 Maths Lead

### Role of Maths Hub Level 3 Maths Lead

The Maths Hub Level 3 Maths Lead will spend the equivalent of at least 18 days per year (Hubs may want to increase this time) leading the Maths Hub's Level 3 Maths work by:

- liaising and communicating with key partners in the Hub area, including the FMSP AC and leaders of good Level 3 Maths practice in schools and colleges
- leading/participating in a regional Level 3 Mathematics Co-ordination Group to ensure a strategic approach to the prioritisation and selection of Level 3 Mathematics Work Groups according to local need and appropriate data (meeting once per term)
- working as part of the Maths Hub Leadership and Management team (might include presenting to Strategic Board)
- supporting and overseeing the hub's Level 3 Mathematics Work Group leaders
- collaborating with other Level 3 Maths Leads across the Maths Hubs Network

### Benefits for participating teachers and their schools

Participating in the programme will provide the following benefits to the Level 3 Maths Leads and their schools/colleges

#### Level 3 Maths Leads will develop:

- deeper understanding of Level 3 Maths locally and nationally
- wider awareness of the CPD available and needed to support teachers of Level 3 Maths
- strong links locally and nationally with other providers and supporters of Level 3 Maths
- Level 3 Maths Leads will have the opportunity to work closely with the NCETM team and the national and local communities of Level 3 maths teachers and supporters

### Funding

The Maths Hub will pay the school/college for the agreed release time (minimum 18 days per year) at the appropriate agreed rate. Travel expenses will be covered separately.

Please see here for further information and application form: <https://goo.gl/dfwmFi>

**The closing date is: Friday 22<sup>nd</sup> June 2018**

Please return the application for to Lisa Bradshaw (Director of Maths Hub NW3) [lisa.bradshaw@three-saints.org.uk](mailto:lisa.bradshaw@three-saints.org.uk)



## Developing partnerships with ITT providers - New project for 2018-19

To work in partnership with Initial Teacher Training (ITT) and Subject Knowledge Enhancement (SKE) providers to ensure the effective recruitment, preparation and development of all teachers of mathematics  
Further details for follow...

## SSIF Maths Bids

Any provider wishing to apply for the SSIF funding with a focus on maths needs to ensure they are supported (endorsed) by Maths Hubs to ensure projects aren't being repeated or duplicated. For a more detailed discussion, contact Lisa Bradshaw.

A huge thank you to all partners that sit on Maths Hub NW 3 Executive Leadership Board for all their hard work and commitment in 2017-18. Highly experienced people - head teachers, senior leaders, company and education representatives from all sectors make up the board. They meet on a ½ termly basis to provide effective challenge and continued support to the Maths Hub Leadership Board with a regional representative from NCETM.

Looking forward to next year! **#collaboration**  
**#commitmenttoexcellence** @NCETM @the3saints  
@SthelensTSA



For further information in relation to National and Local work streams that Maths Hub NW3 is involved in please visit:

<http://www.nwmathshub3.co.uk>



or follow us on Twitter **@NWmathshub3**



Want to keep up with everything that's happening in North West Maths Hub 3? Sign up for our mailing list here:

<http://eepurl.com/du2lInn>

Alternatively, please don't hesitate to contact:

Lisa Bradshaw (Maths Hub Lead) [lisa.bradshaw@three-saints.org.uk](mailto:lisa.bradshaw@three-saints.org.uk)

Sarah McIlroy (Primary Mastery Lead) [smcilroy90@gmail.com](mailto:smcilroy90@gmail.com)

Lindsay Porter (Secondary Mastery Lead) [lindsayporter44@yahoo.co.uk](mailto:lindsayporter44@yahoo.co.uk)

Catherine Van Saarloos (Post 16 Lead) [Catherine.VanSaarloos@liv-coll.ac.uk](mailto:Catherine.VanSaarloos@liv-coll.ac.uk)

Sarah Makin (Admin) [sarah.makin@three-saints.org.uk](mailto:sarah.makin@three-saints.org.uk)

Debs Ayerst (Online Services Admin) [debsayerst@nwmathshub3.co.uk](mailto:debsayerst@nwmathshub3.co.uk)

## About our work:

As a Maths Hub we provide support to all schools in the area and the NW, across all areas of maths education, including:

### The overall aim:

All Maths Hubs working together to support primary practitioners through to post 16 to have a chance to change/influence maths education across the country.

Recruitment of maths specialists into teaching.

Initial training of maths teachers and converting existing teachers into maths.

Co-ordinating and delivering a wide range of maths continuing professional development (CPD) and school-to-school support.

Ensuring maths leadership is developed, e.g. running a programme for aspiring heads of maths departments.

Helping maths enrichment programmes to reach a large number of pupils from primary school onwards.