

THE TRANSFORMER



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Welcome to the Summer 2021 issue of The Transformer ... the GLOW Maths newsletter.

Despite the challenges of working in the Covid landscape, it's been wonderful to see a record number of schools from across Gloucestershire and Worcestershire engaging with our online projects and events this year. Thank you for all everything you have done to support children and young people.

In this newsletter are details of how to get involved with our FREE online Summer Events including Restore, Refresh & Rekindle #MathsFest21 Conference (Thursday 27th May, 13:00 -16:15), ITT network meetings for anyone who is involved with supporting secondary trainees in schools and the West Midlands Secondary Maths Conference with our colleagues from Origin, Central, SHaW, NMids and Cheshire & Wirral Maths Hubs.

Plus we are busy planning our offer for 2021/22 including funding of at least £1500 for some of our Teaching for Mastery projects. Find out more about this and how to get involved with the many other opportunities in 2021/22 on page 3. Let's hope we can get back to working together in each other's classrooms in September.

Places are limited for all our FREE Professional Learning opportunities so don't miss out and sign up today!!

Keep on GLOW-ing

Steve Lomax and the GLOW Team
GLOW Maths Hub Lead



Recruitment 21/22 Primary Schools



Developing Primary Teaching for Mastery

Develop a teaching for mastery in maths approach in your primary school. Up to £1500 funded opportunity to join a GLOW Primary Teaching for Mastery Work Group.

During 2021/22 school year, the GLOW Maths Hub is keen to continue working with more primary schools and support teachers to develop a Teaching for Mastery approach and explore best practice in maths.

Two teachers from each participating school join a Work Group, consisting of six or seven local Primary schools. Each group is led by a local classroom-based Teaching for Mastery Specialist. On-site bespoke support is also provided by the Teaching for Mastery Specialist.

Participation in the programme is FREE plus your school will receive up to £1500 to support your involvement.

For more information and to apply
www.glowmathshub.com >> Teaching for Mastery>>How do I get Involved?

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Recruitment 21/22 Secondary Schools



Developing Secondary Teaching for Mastery

During 2020/21 school year, the GLOW Maths Hub is keen to continue working with more Secondary schools and support teachers to develop a Teaching for Mastery approach and explore best practice in maths.

Two teachers from each participating school join a Work Group. Each group is led by a local classroom-based Secondary Teaching for Mastery Specialist. Bespoke on-site support is also provided by the Teaching for Mastery Specialist.

Participation in the programme is FREE plus your school will receive £2000 to support your involvement.

For more information and to apply
www.glowmathshub.com >> Teaching for Mastery>>How do I get Involved?

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Mastery Specialist Recruitment 2021/22



Join the GLOW Maths Team !!

Do you want to become a specialist in Teaching for Mastery and support your own and other schools in developing Teaching for Mastery?

Apply now for the funded Primary or Secondary Mastery Specialist Programme

#MissItMissOut
Closing Date 28th May

Find out more and apply here :
<https://nctem.org.uk/maths-hubs/what-maths-hubs-are-doing/>

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GLOWITT is running FREE professional development sessions for anyone who is involved with supporting secondary trainees in schools.

GLOWITT SECONDARY Initial Teacher Training Networks

Monday 24th May 2021 16:00 - 17:00

Develop your knowledge and understanding of the key features of Teaching for Mastery in secondary maths.

Explore and discuss the ITT Core Content Framework.

Understand how the GLOW Maths Hubs and NCETM can support you.

WEST MIDLANDS MATHS HUB 2021 ONLINE SECONDARY CONFERENCE

A FREE online conference for Secondary colleagues across two afternoons in the summer term, featuring keynote speeches from Pete Griffin and Richard Perring, as well as an extensive workshop programme.

1. Core Maths: Saving Careers One Calculation at a Time! - Tom Carpenter
2. What does the evidence tell us about metacognition? - Emily Giubertoni
3. Whistle stop tour of Mathematical Reasoning for GCSE - Kate Dale
4. PD Design: The Essential Elements - Christine Watson
5. Supporting Students with Maths Anxiety - Sue Johnston-Wilder
6. Are we missing a trick? - Jayne Watts
7. GCSE Resit: An insight into post 16 resit and how some ideas may be relevant to KS3 - Martin Newton
8. An introduction to mastery and variation theory - Natalie Burton

Register your FREE place - <https://www.centralmathshub.com/wm-conference.html>

Primary Teaching for Mastery Recruitment

Develop a teaching for mastery in maths approach in your primary school. Up to £1500 funded opportunity to join the GLOW Primary Teaching for Mastery Work Group.

During 2021/22 school year, the GLOW Maths Hub is keen to continue working with more primary schools and support teachers to develop a Teaching for Mastery approach and explore best practice in maths.

Two teachers from each participating school join a Work Group, consisting of six or seven local Primary schools. Each group is led by a local classroom-based Teaching for Mastery Specialist who leads the group. On-site bespoke support is also provided by the Teaching for Mastery Specialist.

Participation in the programme is FREE plus your school will receive up to £1500 to support your involvement.

Secondary Teaching for Mastery Recruitment

During 2020/21 school year, the GLOW Maths Hub is keen to continue working with more Secondary schools and support teachers to develop a Teaching for Mastery approach and explore best practice in maths.

Two teachers from each participating school join a Work Group. Each group is led by a local classroom-based Secondary Teaching for Mastery Specialist. Bespoke on-site support is also provided by the Teaching for Mastery Specialist.

**To book or find out more information: www.glowmathshub.com
or contact: glowmathshub@balcarras.gloucs.sch.uk**

WORK GROUP OPPORTUNITIES 21/22

Once again the GLOW Maths Hub will be running FREE Work Groups across the phases and across the GLOW region. All groups will be in Gloucestershire and Worcestershire unless specified. Each group is **FREE** to participate. Every Work Group is led by a Teacher from the GLOW area, experienced in leading maths specific CPD.

Work Groups are a model of professional and school development used in most Maths Hubs projects. These 'projects' – listed below – cover mathematical subject knowledge and pedagogy in all educational phases.

Maths Hubs projects 2021/22

There are 40 Maths Hubs across England, serving all state-funded schools. Again this year, Maths Hubs are offering fully-funded professional development in the form of Work Groups and national programmes. These span the phases from Early Years to post-16, and address a range of themes.

Projects run via Work Groups are broadly similar, with schools and teachers in a hub area engaging in activities around an agreed targeted outcome. Many teachers and schools participate in professional development with their Maths Hub every year, taking advantage of the range of projects on offer, and the chance to collaborate at a local level. Contact your local hub to find out which projects they are running.

How to take part:

If you'd like to participate in any of this work, contact your local Maths Hub to find out how to get involved at www.ncetm.org.uk/mathshubs



Early Years and Primary

Teaching for Mastery – Maths Hubs support schools at every stage of introducing and embedding a teaching for mastery approach. In 2021/22 all projects will reflect the importance of prioritising those areas of the curriculum where understanding is essential for pupils to be able to move on.

Schools joining the programme for the first time have two possible entry points:

- Mastery Readiness
- Teaching for Mastery Development

Schools carrying on with, or re-joining, the programme, take part in one of two stages:

- Embedding teaching for mastery
- Sustaining teaching for mastery

All projects follow the Work Group model, with expert leadership, which supports schools in developing strong curriculum, teaching, and professional development practices that reflect a teaching for mastery approach.

Secondary

Teaching for Mastery – Maths Hubs projects help secondary departments to consider what effective mastery of maths look like for their students. Schools nominate two teachers to become 'Mastery Advocates' for their department, participating in one of three phases of development:

- Teaching for Mastery Development Work Groups, for departments joining for the first time
- Embedding Work Groups, for the second participation year
- Sustaining Work Groups, for the third participation year

Mathematical Thinking for GCSE: Work Groups offer teachers and their departments support to address the reasoning and problem-solving challenges of associated with assessment at GCSE.

Years 7–11 Coherence: Formerly known as Challenging Topics at GCSE, this offers participants the chance to analyse, deconstruct and trace a particular key topic area through the curriculum, developing insight into effective teaching approaches, and considering implications for curriculum design.

NEW Secondary Subject Leadership: Work Groups will offer support to secondary heads of department/subject leaders, to enable them to better understand and implement teaching for mastery approaches across their department, and to develop in their role as leaders of both student learning and teacher professional development.

NEW Secondary Maths MAT Leads: This centrally-led programme is for those who lead maths across multiple schools, and will enable them to better understand and develop effective maths pedagogy approaches across those schools.

Post-16

This range of projects aims to support teachers of all students in Year 12 and above, including those needing to resit GCSE.

Supporting Post-16 GCSE Resit: These Work Groups get to grips with a variety of methods designed to support teachers of students resitting their Maths GCSE.

The three Level 3 projects below are all run by Maths Hubs in partnership with the Advanced Mathematics Support Programme (AMSP).

NEW New to teaching Core Maths: Teachers new to Core Maths will develop specialist knowledge for teaching the qualification, and increase their confidence in delivering it.

Developing Core Maths Pedagogy: Teachers looking to expand existing provision can join Work Groups exploring the philosophy and practicalities of this qualification.

Developing A Level Pedagogy: The demands of A level Maths are explored, as participants develop knowledge of the content and requirements of the specification with a particular focus on Covid recovery.

Years 5 to 8 Continuity: Primary and secondary teachers collaborate on this project, to ensure continuity of mathematical learning from Year 5 to Year 8. Work Groups will take an aspect of the maths curriculum or a pedagogical approach as the focus for their work, and develop a consistent approach to it.

Specialist Knowledge for Teaching Mathematics (SKTM)

There's more to subject knowledge than knowing how to do the maths yourself. Teachers and teaching assistants need to have a clear understanding of how children grasp and retain mathematical concepts. Again this year, Maths Hubs are running Work Groups designed to enhance subject knowledge, available specifically for:

- Early Years practitioners
- Primary teachers
- Primary teaching assistants
- **NEW** Primary early career teachers
- **NEW** Secondary early career teachers
- **NEW** Secondary non-specialist teachers

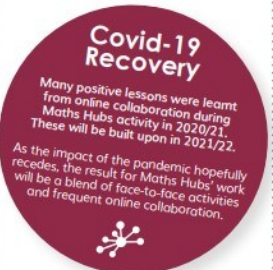
ITT Providers

A network of local ITT providers will continue work started in 2019/20 to develop working partnerships, spread good practice, and share work on mastery with trainee teachers.

Leadership in Maths Education

Every Work Group is led, at local level, by a teacher experienced in leading maths-specific CPD. Across the Maths Hubs Network, projects exist to enhance this leadership capacity and to support those seeking to become local leaders of maths education (LLME).

- Developing Mastery Specialists in primary and secondary schools
- Running national workshops for Work Group Leads to learn from each other
- Supporting teachers who have attained, or who are seeking to achieve, NCETM Accredited PD Lead status
- Maintaining local networks so Local Leaders of Maths Education (LLME) can stay in touch



To register your expression of interest for work groups: www.glowmathshub.com or contact: glowmathshub@balcarras.gloucs.sch.uk

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Recruitment 21/22

Work Groups - Primary

www.glowmathshub.com

Participation in these programmes is FREE !

Years 5-8
Continuity.

Work Groups in this project aim to strengthen the transition from primary to secondary school by focusing on curriculum and pedagogical continuity over Years 5 to 8.

NEW for 2021/22.
SKTM Primary Early Career Teachers

This project is designed to support primary early career teachers (teachers in their first two years of teaching) in developing specialist knowledge for teaching mathematics, thus enabling them to understand, teach and support pupils.

SKTM – Primary Teaching Assistants.
2 Groups Glos and Worcs

This project is designed to support primary teaching assistants in developing specialist knowledge for teaching mathematics, thus enabling them to understand, teach and support pupils in maths in the classroom.

SKTM Early Years Teachers

This project is designed to support Early Years teachers in developing their specialist knowledge for teaching maths to 3-5 year olds. This may be particularly relevant for NQTs, teachers that have moved phases, or teachers that have not received maths specific training.

SKTM – Primary Teachers

This project is designed to support primary teachers in developing specialist knowledge for teaching mathematics, thus enabling them to understand, teach and support pupils in maths in the classroom.

For more information and to apply : www.glowmathshub.com >> Work Groups >> Opportunities 21/22

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Recruitment 21/22

Work Groups - Secondary

www.glowmathshub.com

Participation in these programmes is FREE !

Years 5-8
Continuity.

Work Groups in this project aim to strengthen the transition from primary to secondary school by focusing on curriculum and pedagogical continuity over Years 5 to 8.

New for 2021/22
SKTM - Secondary Early Career Teachers

This project is designed to support Secondary early career teachers (teachers in their first 2 years of teaching) in developing their specialist knowledge for teaching mathematics, thus enabling them to understand, teach and support students in the maths classroom.

New for 2021/22
SKTM - Secondary Non-Specialists

This NEW project offers secondary non-specialist maths teachers high quality CPD focusing on subject knowledge and pedagogy, thus enabling them to understand, teach and support pupils in maths in the classroom.

Mathematical Thinking for GCSE

This project is for secondary maths teachers looking for practical and theoretical elements to address their students' GCSE attainment. The focus of this Work Group is to support teachers in developing their understanding of mathematical thinking as it relates to problem-solving and reasoning, using practical task types and thinking what this looks like in the classroom.

Years 7-11 Coherence ***NEW*** for 2021/22.

This project focuses on participant teachers working together to analyse, deconstruct and trace through the curriculum a selected key topic area, developing insight into effective teaching approaches, and considering the implications for longer term curriculum design.

For more information and to apply : www.glowmathshub.com >> Work Groups >> Opportunities 21/22

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