**Mastering Number Programme:**

**Reception and Key Stage 1**

Information and Application 2021/22

In 2021/22, all Maths Hubs will organise communities of schools following the Mastering Number Programme. This programme will develop solid number sense, including fluency and flexibility with number facts, which will have a lasting impact on future learning for all children. The programme will also involve high quality professional development for teachers.

Each Maths Hub is now seeking to recruit schools to join the Work Groups for this programme. This document gives information about the Work Groups and how schools can apply to be involved.

A school’s participation involves teachers from each of Reception, Year 1 and Year 2 (in one-form entry schools), the maths subject lead, and the headteacher. In small schools, there may be just one or two participating class teachers. In larger, multi-form schools, it is expected that lead teachers support colleagues in Reception and KS1 to adopt the same approach in their classes, to ensure consistency across the school.

Background

Since 2014, the NCETM and Maths Hubs have been working together to develop [approaches to teaching for mastery](https://www.ncetm.org.uk/teaching-for-mastery/) within primary maths. Thousands of schools have benefited. The Mastering Number Programme is wholly consistent with teaching for mastery.

For schools in the Mastering Number Programme, children in Reception, Year 1 and Year 2 will have a daily teacher-led session of 10 to 15 minutes, designed to ensure that pupils develop fluency with, and understanding of, number that is crucial to future success in maths and academic progress more generally.

The central programme

The core professional development programme will be delivered by an experienced team from the NCETM, led by the NCETM’s Director of Primary Mathematics, Debbie Morgan. It will involve the lead teachers, maths subject lead and headteacher engaging in a range of synchronous and asynchronous online professional development, including three live sessions, across the academic year.

Teachers will be expected to deliver a daily session of 10 to 15 minutes in addition to their daily maths lesson, which may be a little shorter as a result. Resources, including lesson plans, visual resources and practical equipment, will be provided.

Central to the programme will be a small, abacus-like piece of equipment called a rekenrek, which will be provided for use by children in participating classes.

Local Work Groups

Each Work Group will consist of up to 40 schools and be led by a professional experienced in early maths and in leading professional development in their Maths Hub area. During the year, teachers in the Work Group will work together to share experiences and reflect on the impact of the programme on their pupils and on themselves as teachers. The Work Group Lead will facilitate and steer regular discussion among participants in a dedicated online community. This ongoing cross-fertilisation of experiences, ideas and successes will create a vibrant and sustained professional learning experience for all those taking part. It will also significantly benefit pupils in the participating schools.

Benefits for participating schools

Participating in the Work Group will provide the following benefits to participant schools:

* High quality support for teacher professional development for the lead teachers, directed by the NCETM and facilitated by the local Maths Hub
* Supportive and collaborative online community facilitated by the Work Group Lead
* Resources provided, including coherent plans for the Mastering Number daily sessions in Reception, Year 1 and Year 2
* Sets of the central physical resource: the abacus-like rekenrek
* No charge for participation.

Who can apply?

Any primary school can apply, and there are thousands of places. Should the programme be oversubscribed, priority will be given to schools with the highest levels of disadvantage. Early applications will be welcomed.

N.B Schools in Mastery Readiness, Development and Embedding Work Groups for 2021/22 should prioritise their existing teaching for mastery commitments and therefore should not apply.

Expectations of participating schools

Schools chosen to participate in the Work Group commit to the following expectations:

• The school will introduce Mastering Number in all Reception, Year 1 and Year 2 classes, in addition to their daily maths lesson (which could be shortened as a result of participation in this Work Group)

• Teachers will be expected to contribute regularly to an online community led by the Work Group Lead, reflecting on the implementation and impact of the programme, as well as attending two, more formal online sessions, during 2021/22

• Participants in the project will engage in all online synchronous and asynchronous professional development, including three live sessions, throughout the academic year

• The school will provide any feedback required by the Maths Hub and participate in any evaluation processes required.

Funding

There is no charge to schools participating in the programme. Resources will be provided for each school, in order for them to teach daily sessions of the Mastering Number Programme.

How to apply

Schools interested in applying to be part of a Work Group in 2021/22 should complete the application form below and **submit it, by email,** [**admin@cambridgemathshub.org**](https://catrustorg-my.sharepoint.com/personal/gdorairaj_cambournevc_org/Documents/Downloads/admin@cambridgemathshub.org). Early applications are encouraged.

Details of the 40 Maths Hubs are given in the appendix below.

You can find your local Maths Hub [using the search tool on the NCETM website](http://www.ncetm.org.uk/maths-hubs/find-your-hub/).

Mastering Number Work Group

Application Form

*(Please complete and return to* [*admin@cambridgemathshub.org*](https://catrustorg-my.sharepoint.com/personal/gdorairaj_cambournevc_org/Documents/Downloads/admin@cambridgemathshub.org) *– details of the hubs can be found in the appendix below*)

**Maths Hub**

|  |  |
| --- | --- |
| Which Maths Hub are you applying to? | Cambridge Maths Hub |

**School details**

|  |  |  |  |
| --- | --- | --- | --- |
| Name of school |  | | |
| Address |  | | |
| School URN |  | Contact telephone number |  |
| Name of headteacher |  | Email |  |
| Local Authority |  | | |

**Details of lead teacher (Reception)**

|  |  |
| --- | --- |
| Name |  |
| Email |  |
| Teacher reference number (TRN – details of how to find this are [here](https://www.gov.uk/guidance/request-a-reminder-for-a-teacher-reference-number-trn)) |  |
| Telephone |  |
| School role/s including teaching group(s) in 2021/22 |  |

**Details of lead teacher (Year 1)**

|  |  |
| --- | --- |
| Name |  |
| Email |  |
| Teacher reference number (TRN – details of how to find this are [here](https://www.gov.uk/guidance/request-a-reminder-for-a-teacher-reference-number-trn)) |  |
| Telephone |  |
| School role/s including teaching group(s) in 2021/22 |  |

**Details of lead teacher (Year 2)**

|  |  |
| --- | --- |
| Name |  |
| Email |  |
| Teacher reference number (TRN – details of how to find this are [here](https://www.gov.uk/guidance/request-a-reminder-for-a-teacher-reference-number-trn)) |  |
| Telephone |  |
| School role/s including teaching group(s) in 2021/22 |  |

**Headteacher statement**

|  |
| --- |
| Please give details of why you wish the school to participate in the Work Group including any contextual information which may mean that pupils in Reception, Year 1 and Year 2 would benefit from the Mastering Number programme. You may wish to comment on how your children have been affected through the coronavirus pandemic, and priorities for maths in your school (up to 250 words). |
|  |

**Confirmation of school commitment (electronic signatures)**

If we are chosen to participate in the Work Group, we understand and commit to the following expectations:

• The school will introduce Mastering Number in all Reception, Year 1 and Year 2 classes in addition to their daily maths lesson (which could be shortened as a result of participation in this Work Group)

• The lead teachers will be expected to regularly contribute to an online community led by the Work Group Lead, reflecting on the implementation and impact of the programme including two online sessions in 2021/22

• Participants in the project will engage in online synchronous and asynchronous professional development including 3 live sessions throughout the academic year

• The school will provide any feedback required by the Maths Hub and participate in any evaluation processes required.

|  |  |
| --- | --- |
| Headteacher | *Signature of headteacher* |
| Lead Teacher 1 (Reception) | *Signature of Lead Teacher 1* |
| Lead Teacher 2 (Year 1) | *Signature of Lead Teacher 2* |
| Lead Teacher 3 (Year 2) | *Signature of Lead Teacher 3* |

*(Note: When the form is emailed to your chosen Maths Hub, please copy all those above in confirmation of their electronic signature.)*

Appendix: Names of Maths Hubs

The Maths Hubs look forward to hearing of your interest in joining the Mastering Number Programme.

Below is a list of the 40 Maths Hubs which cover the whole of England. The regions given are for guidance – **many hubs span more than one geographical region** – so if you do not already know your hub, please use the [search tool on the NCETM website](https://www.ncetm.org.uk/maths-hubs/find-your-hub/) to find your local Maths Hub and send them your application.

**East of England Region:**

EE1: [Enigma Maths Hub](https://www.ncetm.org.uk/hubs/enigma-maths-hub/)

EE2: [Cambridge Maths Hub](https://www.ncetm.org.uk/hubs/cambridge-maths-hub/)

EE3: [Matrix Herts Maths Hub](https://www.ncetm.org.uk/hubs/matrix-herts-maths-hub/)

EE4: [Angles Maths Hub](https://www.ncetm.org.uk/hubs/angles-maths-hub/)

EE5: [Venn Essex Maths Hub](https://www.ncetm.org.uk/hubs/venn-essex-maths-hub/)

**East Midlands Region:**

EM1: [East Midlands West Maths Hub](https://www.ncetm.org.uk/hubs/east-midlands-west-maths-hub/)

EM2: [East Midlands East Maths Hub](https://www.ncetm.org.uk/hubs/east-midlands-east-maths-hub/)

EM3: [East Midlands South Maths Hub](https://www.ncetm.org.uk/hubs/east-midlands-south-maths-hub/)

**London Region:**

LO1: [London North East Maths Hub](https://www.ncetm.org.uk/hubs/london-north-east-maths-hub/)

LO2: [London Central and NW Maths Hub](https://www.ncetm.org.uk/hubs/london-central-and-nw-maths-hub/)

LO3: [London Central and West Maths Hub](https://www.ncetm.org.uk/hubs/london-central-and-west-maths-hub/)

LO4: [London South West Maths Hub](https://www.ncetm.org.uk/hubs/london-south-west-maths-hub/)

LO5: [London Thames Maths Hub](https://www.ncetm.org.uk/hubs/london-thames-maths-hub/)

LO6: [London South East Plus Maths Hub](https://www.ncetm.org.uk/hubs/london-south-east-plus-maths-hub/)

**North East Region:**

NE1: [Great North Maths Hub](https://www.ncetm.org.uk/hubs/great-north-maths-hub/)

NE2: [Archimedes NE Maths Hub](https://www.ncetm.org.uk/hubs/archimedes-ne-maths-hub/)

**North West Region:**

NW1: [North West One Maths Hub](https://www.ncetm.org.uk/hubs/north-west-one-maths-hub/)

NW2: [Turing NW Maths Hub](https://www.ncetm.org.uk/hubs/turing-nw-maths-hub/)

NW3: [North West Three Maths Hub](https://www.ncetm.org.uk/hubs/north-west-three-maths-hub/)

NW4: [North North West Maths Hub](https://www.ncetm.org.uk/hubs/north-north-west-maths-hub/)

NW5: [Abacus NW Maths Hub](https://www.ncetm.org.uk/hubs/abacus-nw-maths-hub/)

NW6: [Cheshire and Wirral Maths Hub](https://www.ncetm.org.uk/hubs/cheshire-and-wirral-maths-hub/)

**South East Region:**

SE1: [Bucks, Berks and Oxon Maths Hub](https://www.ncetm.org.uk/hubs/bucks-berks-and-oxon-maths-hub/)

SE2: [North-East Hants and Surrey Maths Hub](https://www.ncetm.org.uk/hubs/north-east-hants-and-surrey-maths-hub/)

SE3: [Solent Maths Hub](https://www.ncetm.org.uk/hubs/solent-maths-hub/)

SE4: [Sussex Maths Hub](https://www.ncetm.org.uk/hubs/sussex-maths-hub/)

SE5: [Kent and Medway Maths Hub](https://www.ncetm.org.uk/hubs/kent-and-medway-maths-hub/)

**South West Region:**

SW1: [CODE Maths Hub](https://www.ncetm.org.uk/hubs/code-maths-hub/)

SW2: [Jurassic Maths Hub](https://www.ncetm.org.uk/hubs/jurassic-maths-hub/)

SW3: [Boolean Maths Hub](https://www.ncetm.org.uk/hubs/boolean-maths-hub/)

SW4: [GLOW Maths Hub](https://www.ncetm.org.uk/hubs/glow-maths-hub/)

SW5: [Möbius Maths Hub](https://www.ncetm.org.uk/hubs/mobius-maths-hub/)

**West Midlands Region:**

WM1: [Central Maths Hub](https://www.ncetm.org.uk/hubs/central-maths-hub/)

WM2: [SHaW Maths Hub](https://www.ncetm.org.uk/hubs/shaw-maths-hub/)

WM3: [North Mids Maths Hub](https://www.ncetm.org.uk/hubs/north-mids-maths-hub/)

WM4: [Origin Maths Hub](https://www.ncetm.org.uk/hubs/origin-maths-hub/)

**Yorkshire and the Humber Region:**

YH1: [Yorkshire Ridings Maths Hub](https://www.ncetm.org.uk/hubs/yorkshire-ridings-maths-hub/)

YH2: [West Yorkshire Maths Hub](https://www.ncetm.org.uk/hubs/west-yorkshire-maths-hub/)

YH3: [Yorkshire and the Humber Maths Hub](https://www.ncetm.org.uk/hubs/yorkshire-and-the-humber-maths-hub/)

YH4: [South Yorkshire Maths Hub](https://www.ncetm.org.uk/hubs/south-yorkshire-maths-hub/)