

# Developing Core Maths Pedagogy Work Group

Maths Hubs Network  
Collaborative Projects 2020/21  
NCP 20-20



## Outline

These Work Groups give teachers opportunities – through collaboration and experimentation – to develop improved teaching approaches that support the open-ended problem-solving skills Core Maths students need, and to share these with departmental colleagues. Participant departments will support the role of Core Maths in promoting contextualised problem-solving and links to teaching in other subject areas.

This project involves a direct working partnership between the Maths Hubs Network and the Advanced Mathematics Support Programme (AMSP).

## How to apply

### Book here:

<https://cmh20-coremaths.eventbrite.co.uk>

### Email:

[admin@cambridgemathshub.org](mailto:admin@cambridgemathshub.org)

## Details

### What is involved?

The Work Group will meet online for seven twilight sessions focusing on **developing resources** that exemplify pedagogical approaches to trial with classes, **reflecting** on the lessons and formulating a collective **understanding** of improved pedagogy for core maths. Lead participants will be expected, where appropriate, to work with colleagues in their own department.

Work Groups will be designed to meet the specific needs of the range of experience of participants.

## Benefits

Teachers have the opportunity to plan collaboratively and conduct action research into core maths pedagogy.

Participants and their departments will:

- ✓ understand the philosophy of Core Maths, with its approach to maths through contextualised problem-solving
- ✓ explore a range of common Core Maths approaches and topics (e.g. Fermi problems, critical analysis of numbers in the media) and their use of pre-release materials
- ✓ identify and make effective use of existing Core Maths resources
- ✓ support senior leadership in understanding the benefits of Core Maths
- ✓ understand the role of Core Maths in promoting problem solving within GCSE Maths

### Who can apply?

This project is aimed at recent or – in exceptional cases – potential teachers of Core Maths. These may be teachers in post-16 settings whose main subject is maths or whose main subject is not maths.

### What is the cost?

“Supporting Core Maths Pedagogy” is fully funded by the Maths Hubs Programme so is free to participating schools.

## ADDITIONAL INFORMATION

### The wider context

These Work Groups uniquely offer lead participants the opportunity for sustained Core Maths professional development through collaboration over time.

This project will contribute to the wider national effort to support teachers and leaders to increase the growth in uptake and delivery of Core Maths in schools and colleges, and to embed a culture of Core Maths within school and college maths departments with confidence.

### Expectations of Participants and their Schools

Schools/colleges must be able to commit to the full academic year’s programme. This involves a total of seven live online support across the academic year, as well as classroom and school-based activity. Participants will also be expected to make regular contributions to our online forum (Basecamp). Participants must also be supported by their school/college leadership to explore outcomes from the project with other colleagues in their department.

### Covid Response

The risk of cross contamination between schools is too high for us to consider face-to-face Work Groups. Therefore, all Work Groups will take place online this year. A particular focus this year will be supporting pupils who have missed exam preparation in 2020.

### If you are interested, what next?

#### Dates:

Wednesday	13 January	16:00 – 17:30
Wednesday	27 January	16:00 – 17:30
Wednesday	3 February	16:00 – 17:30
Wednesday	24 February	16:00 – 17:30
Wednesday	10 March	16:00 – 17:30
Wednesday	24 March	16:00 – 17:30
Wednesday	5 May	16:00 – 17:30

Venue: Online

**Book at:** <https://cmh20-coremaths.eventbrite.co.uk>