

Developing Core Maths Pedagogy Work Groups

Maths Hubs Network
Collaborative Projects 2020/21
NCP20-20



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 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

Apply: www.solentmathshub.org.uk

Email: info@solentmathshub.org.uk

DETAILS

What is involved?

Most Work Groups in the project will have 6 twilight Zoom sessions. Lead participants will be expected, where appropriate, to engage in gap tasks and work with colleagues in their own department.

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

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?

The Developing Core Maths Pedagogy project is **fully funded** by the Maths Hubs Programme and the AMSP so is **free** to participating schools/colleges.

BENEFITS

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

COVID RECOVERY

The school year 2020/21 will be substantially affected by the impact of the coronavirus outbreak. The knock-on effects on school life and teachers' working lives can't be predicted with any certainty. So, all Maths Hubs work will be flexible and adapt to changing realities. There's likely to be more live online collaboration, often including use of video, for example. In addition, Work Group content will be adjusted to address schools' recovery from coronavirus-related disruption alongside work on the central maths subject matter of each project.

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Additional Information

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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 INSTITUTIONS

Schools/colleges must be able to commit to the full academic year's programme.

This involves a total of 6 Zoom sessions across the academic year, as well as classroom and school-based activity. Participants must also be supported by their school/college leadership to explore outcomes from the project with other colleagues in their department.

WHAT IS A WORK GROUP?

A Work Group is a group of teachers or teaching assistants from a number of schools working together with a knowledgeable other (the Work Group Lead). All of our Work Groups have been developed with an action research model in mind. This means that they are collaborative, involve gap tasks and individual study and an opportunity for all participants to share. The Work Group lead often assumes the role of facilitator for these discussions rather than 'expert' disseminating information.

WORK GROUPS LOCATION & DATES

Session 1: Tuesday 20th October 2020

Session 2: Tuesday 1st December 2020

Session 3: Tuesday 19th January 2021

Session 4: Tuesday 23rd February 2021

Session 5: Tuesday 23rd March 2021

Session 6: Tuesday 4th May 2021

All sessions will be via Zoom - 16:30 – 17:30

LEADING THE WORK GROUP

Leading the Work Group will be Katherine Taylor, Curriculum Leader for Maths at Portsmouth College