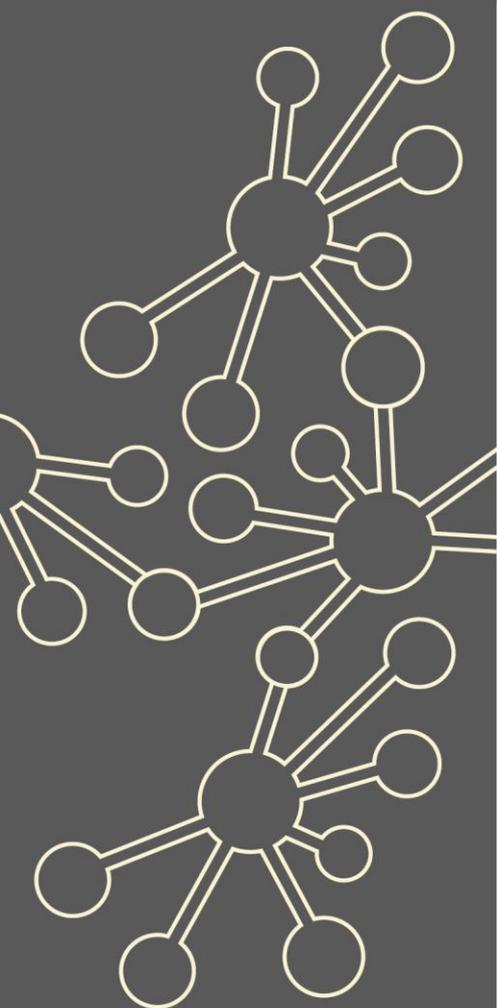


New to Teaching Core Maths

Maths Hubs Network
Collaborative Projects
2021/22

NCP21-21



Outline

The purpose of this programme is to support teachers who are new to teaching Core Maths in developing specialist knowledge for teaching Core Maths and to increase their confidence in teaching the course. The programme has a primary focus on Core Maths subject knowledge and pedagogy and will be based on these six key themes which are common to all the Core Maths specifications:

- Using contextualised problem-solving
- Applying Fermi estimation and modelling
- Developing critical analysis
- Making sense of finance
- Using the pre-release materials
- Exploring statistics.

Technology and online teaching will be underlying themes throughout the programme.

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

Details

What is involved?

Primary focus for 2021/22: Core Maths pedagogy

There will be three days (or equivalent) of direct meeting time. However, this may be adapted to suit the needs of the group, and could be three full day face-to-face sessions, six part-day/twilight sessions, or a blended mix of face-to-face and online meetings. The programme will take place during the Autumn (2021) and Spring (2022) terms.

Who can take part?

This programme is for teachers who are new to teaching Core Maths for the first time and are teaching a Core Maths class during the Autumn and Spring terms of 2021 and 2022.

What are the benefits?

Participants will:

- ✓ apply related pedagogical approaches in their Core Maths teaching
- ✓ plan sequences of lessons to promote student understanding, confidence, and progress
- ✓ effectively teach some mathematical concepts and processes through contextualised problem-solving
- ✓ understand the philosophy of Core Maths, with its approach to maths through contextualised problem-solving
- ✓ develop their subject knowledge in these six areas: Contextualised problem solving; Fermi estimation and modelling; Critical analysis; Finance; Pre-release materials; Statistics
- ✓ develop their understanding of how online learning and technology can be used to support Core Maths teaching.

What is the cost?

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

Covid-19 Recovery

Many positive lessons were learnt from online collaboration during Maths Hubs activity in 2020/21. These will be built upon in 2021/22.

As the impact of the pandemic hopefully recedes, the result for Maths Hubs work will be a blend of face-to-face activities and frequent online collaboration.



The wider context

This programme provides sustained support and a community of practice for teachers who are teaching Core Maths for the first time. This will provide support to complement the current AMSP Core Maths professional development offer.

Expectations of participants and their schools

Participants must be able to commit to the full academic year's programme. This involves a total of three days of face-to-face (or equivalent) support across the two terms of the programme, as well as classroom and school-based activity.

About the Hub

