

Developing A Level Pedagogy Work Groups

Maths Hubs Network Collaborative Projects 2020/21

NCP20-21



Programme Details

Outline

This project provides national support for the effective development of pedagogy in the teaching of A level Mathematics to enhance the quality of teaching and the conceptual understanding of students. Its aim is to develop and sustain regional communities of practice involving collaboration between teachers. The focus is on developing pedagogy in A level Maths teaching, and developing participants as leaders of A level teaching professional development in their own school or college.

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

What is involved?

Most Work Groups in the project will have 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.

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

Participants and their schools will:

- know the content and requirements of the linear A level Maths
- understand the purpose of the over-arching themes and their impact on teaching and learning, including use of technology
- be confident to teach aspects of the content (particularly mechanics and statistics)
- plan sequences of lessons which meet the requirements of the A level, including addressing the overarching themes and use of technology
- support colleagues in their own school/college embedding themes from the Work Group.

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.

What is the cost?

The Teaching for Mastery – Sustaining project is fully funded by the Maths Hubs Programme so is free to participating schools.



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Additional Information

The wider context

There is a range of currently available maths teacher professional development around subject knowledge and pedagogy for new teachers of A level Maths via the AMSP, but no extended professional development for experienced teachers or leaders of A level Maths teaching around the overarching themes, technology or other aspects of pedagogy of the new A level Maths specification.

This project offers a strong focus on pedagogy through the overarching themes of the linear A level Maths specification, with changes to pedagogy in statistics teaching, assessment and expectations in the use of technology.

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 three days of face-to-face (or equivalent) support 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.

Who can apply?

The project is aimed at schools/colleges/departments that want to develop one or more aspects of their A level pedagogy including use of technology.

It would be suitable for existing leaders of A level teaching or experienced teachers of A level Maths who wish to lead the development of pedagogy in A level teaching with other colleagues in their own or other schools/colleges.

Teachers who will find this Work Group particularly useful include those who have already completed other A level subject knowledge and pedagogy courses (or similar) and are able to work with other colleagues in their own or other schools/colleges.

**For further information or to express
interest in this programme please contact
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