

Developing A Level Pedagogy

(BCP & Dorset)

Ashley Pape, Poole Grammar School

Maths Hubs Network Collaborative Projects 2021/22

NCP21-23



Fully funded by the Maths Hubs Programme so is free to participating schools.

Outline

This project provides national support for the effective development of pedagogy in the teaching of A level Mathematics to support Covid recovery, to enhance the quality of teaching and the conceptual understanding of students, and the development of participants as leaders of A level teaching professional development in their own school or college. It aims to develop and sustain local communities of practice involving collaboration between teachers in developing pedagogy in their teaching of A level Maths.

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

Details

What is involved?

Work Groups in the project will have the equivalent of three days of direct meeting time, with gap tasks to complete. Lead participants will be expected, where appropriate, to work with colleagues in their own department.

The Work Groups sessions will be designed to meet the specific needs and experience of participants but may include:

- Problem Solving
- Developing fluency/filling in gaps in understanding
- Differentiating in the A Level classroom

What are the benefits?

Participants and their departments will:

- ✓ be better able to prepare lessons that meet the requirements of the A level (including the overarching themes and the use of technology) and support Covid recovery
- ✓ support colleagues in their own school/college in embedding themes from the Work Group
- ✓ be confident to teach aspects of the content (particularly mechanics and statistics)
- ✓ understand related pedagogical approaches to support Covid recovery.

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 A level Maths specification. There is 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.

The impact of the pandemic from March 2020 to date in terms of school closures and variable access to remote teaching requires a strong focus on high quality teaching in the Covid recovery period.

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.

Workshop details

Workshops will be a mixture of online and face to face sessions. Provisional dates are as follows but may change dependent on the participants in the group:

Workshop 1 - Wed 13th Oct 13.00-16.30 Face to Face

Workshop 2 - Wed 10th Nov 16.15-17.45 Online

Workshop 3 - Wed 8th Dec 16.15-17.45 Online

Workshop 4 - Thurs 20th Jan 14.30-16.00 Online (joint session with Exeter group)

Workshop 5 - Wed 16th Feb 16.15-17.45 Online

Workshop 6 - Wed 30th Mar 13.00-16.30 Face to Face

For further information, contact the Work Group Lead, Ashley Pape:

papea@poolegrammar.com