

# Developing A Level Pedagogy

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Maths Hub Network  
Collaborative Projects  
2021/22

NCP21-23

## Outline

### Primary focus for 2021/22: A level pedagogy to support Covid recovery

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.

## Details

### What is involved?

The content of the Work Group sessions will be influenced by the needs of the participants but may include the following:

- Differentiation in the A level Mathematics classroom
- Mathematical communication
- Problem solving
- Evidence-based practice such as spaced practice and retrieval
- Dealing with the gaps in students coming from a Covid-disrupted GCSE
- Topic based pedagogy (e.g., for hypothesis testing, proof etc)

### 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.

## Expectations of participants and their schools

Schools/colleges must be able to commit to the full academic year's programme (see below) including 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.

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.

## Workshop details

Workshops will take place on the following dates:

Date	Time	Location
11 <sup>th</sup> Nov 2021	1230 – 1630	F2F, Exeter City Centre Venue
2 <sup>nd</sup> Dec 2021	1430 – 1600	Online
20 <sup>th</sup> Jan 2022	1430 – 1600	Online
10 <sup>th</sup> Feb 2022	1430 – 1600	Online
17 <sup>th</sup> Mar 2022	1430 – 1600	Online
31 <sup>st</sup> Mar 2022	1230 – 1630	F2F, Exeter City Centre Venue

Participation is free for teachers from state-funded schools. Cover expenses will need to be funded by each school, as necessary.

For further information, contact the Work Group Lead School via:  
[events@exeterms.ac.uk](mailto:events@exeterms.ac.uk)