

MEI

Further Education Maths CPD Menu

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The Further Education Maths CPD menu has been designed to meet the needs of all providers delivering GCSE Mathematics resit, Functional Skills maths, or other level 2 and below maths qualifications for learners aged 16-19.

How it works

You can choose and combine sessions from the four strands of the menu to build a CPD event that suits your establishment's priorities, time availability and your teachers' development needs and interests.

An experienced member of MEI's Further Education team will work with you to design and deliver your tailored professional development session. The sessions can be either in person or online.

Which topics can I choose?

The menu is organised into four strands, with a range of sessions to choose from:

- **Curriculum design** – structuring effective and coherent learning journeys
- **Teaching approaches and pedagogical strategies** – refining classroom practice to improve learning outcomes
- **Learner engagement and motivation** – increasing student participation, confidence and enthusiasm
- **Deepening mathematical understanding** – strengthening learners' core knowledge and conceptual connections

Curriculum Design

Collaborative Planning

Explore effective approaches for impactful collaborative planning practices which maximise the expertise of the teaching team.

Planning and Sequencing

Consider how prioritising curriculum outcomes can best meet the needs of FE students, making optimal use of limited teaching time.

New to Teaching GCSE Mathematics Resit

For those new to teaching GCSE Mathematics resit in a post-16 setting, explore the key GCSE specification aims and effective resit pedagogy.

New to Teaching Functional Skills Maths

For those new to teaching Functional Skills maths post-16, examine key content information across all levels, and explore effective strategies.

Enhancing Through Technology

Examine and explore practical ways to successfully integrate technology to support teaching and learning in FE maths.

Working with Learners with Very Low Prior Attainment

Explore prioritising and strengthening foundational, language and number sense skills, reducing cognitive load to support impactful teaching.

Teaching Approaches and Pedagogical Strategies

Cognitive Load Theory

Investigate how the principles of cognitive load theory can be used to enhance learning in the FE maths classroom.

Questioning

Examine questioning strategies which stimulate mathematical thinking whilst effectively assessing understanding and motivating students.

Responsive Teaching

Explore effective assessment for learning techniques to identify gaps and misconceptions and reflect on strategies for adaptive teaching.

Using Representations

Focus on how representations can help FE students develop a deeper understanding of their prior and current maths learning.

Contextualisation

Consider how meaningful contexts can enrich mathematical learning and promote better engagement and understanding.

Oracy in the FE maths classroom

Examine what oracy looks like in an FE maths classroom by exploring practical approaches to empower all learners.

Learner Engagement and Motivation

Student Engagement and Motivation

Reflect on approaches that sustain interest, build resilience and create a positive learning culture, tailored for FE.

Revision Strategies

Explore creative ideas for building confidence and engaging learners in revision and exam preparation.

Impactful Feedback in the FE Maths Classroom

Focus on how targeted feedback can empower FE learners and support sustained long-term progress.

Inclusion in the FE Maths Classroom

Discover barriers to learning, including maths anxiety, and explore inclusive practices that support all students in FE maths classroom.

People Maths

Bring mathematical concepts to life by using people as manipulatives. Engage in dynamic approaches to enhance understanding. In-person only.

Using Games and Competitions in FE

Explore activities that deepen understanding, spark curiosity and help FE learners build confidence and resilience whilst having fun.

Deepening Mathematical Understanding

Mathematical Connections

Reflect on the connections between topics and explore strategies to leverage them in the classroom.

Deeper Understanding of the Four Operations

Share and collaborate on methods for the four operations, reflecting on how they can help deepen conceptual understanding.

Navigating Maths Language

Explore the role language plays in maths learning and examine practical strategies to support all students overcome language-related barriers.

Problem Solving and Reasoning

Explore practical and engaging ways to make problem solving and reasoning skills integral to all lessons.

Calculator Skills

Delve into how calculators can be used as a powerful tool for confidence, supporting efficiency, problem solving and mathematical thinking.

Estimation

Explore motivating ways to develop this skill to support low prior attaining students in their learning and their lives.