WORKSHOP 4   14.50 – 15.50

4:1 Alex Jacques-Williams (G)
"Ratio Tables and Percentage Grids - Two Approaches to Teaching Proportion"
Exploring a non-calculator approach to teaching percentages, working on a structured approach and then looking at the more general use of ratio tables (as developed through Realistic Maths Education).

4:2 Carole Maddon-Ogden (G)
"How to engage Functional Students"
A workshop on how to make functional skills maths more engaging.

4:3 Martin Bamber (AL)
"Magic Moments" - Investigations in Turning Effects
Ways to make the teaching of moments in mechanics more effective and more entertaining.

4:4 Christopher Rath (AL, FM, T)
"'Working On' versus 'Working Through' A Level Mathematics"
Do your A-Level Mathematics students think mathematically when they are undertaking their independent study? Do they attend to ideas that will help them to develop their powers of mathematical thinking? What could we provide to enable them to do so while also securing the knowledge and skills they will need to be successful in their examinations? In this session we will work on some mathematical tasks that will hopefully help us all to consider our responses to these questions.

4:5 James Groves (FM)
"A-Level Further Mathematics Paper Review"
We'll be looking through the Summer 2025 papers for A-Level Further Maths, focusing on the Core Pure papers, aiming to cover all the boards, looking at some particularly interesting examples of questions, and sharing our thoughts on what we and our pupils thought about them. Discussion will hopefully ensue!

4:6 David Tucker (CM)
"What Actually is Core Maths (and why is it so vital to the future of maths education)?"
This workshop will explain what the suite of courses is all about; what different exam boards provide; what are the differences and what commonalities exist. We will also consider what the benefits of teaching the course are: for students; for maths teachers; for the school; for results in other A-Levels; for UCAS offers.

4:7 Abigail Bown (PS)
"Tricky Tree Diagrams - from GCSE to STEP"
An opportunity to explore problem-solving in probability looking at 'tricky' questions from GCSE (Hannah's Sweets anyone?), A Level and STEP papers (don't be put off by this) and discussing the thinking and strategies used to solve them.

4:8 George Lythgoe (AL, T)
"Using Simple Programming to Solve Maths Problems"
Most university courses will now involve some element of programming. Taking inspiration from the 'Further Pure with Technology' option in MEI Further Maths, this session will look at some resources.