Core Maths Winter Festival 2022

When	Presenters	Details and booking link
Tuesday 18 January 2022 **4:30pm-5:30pm**	Matt Parker is a stand-up comedian, #1-best-selling maths author and person who makes videos for the internet. Originally a maths teacher from Australia, he loves doing maths and stand-up, often simultaneously. When he's not working as the Public Engagement in Mathematics Fellow at Queen Mary University of London, he's performing in sold-out live comedy shows, spreading his love of maths via TV and radio, or converting photographs into Excel spreadsheets. He is the author of *Humble Pi* and *Things to Make and Do in the Fourth Dimension*.	*Matt Parker's Humble Pi* In this talk, Matt will highlight gems from his book, *Humble Pi* (which explores what happens when maths goes wrong in the real world), and his latest *YouTube videos*, igniting your curiosity and providing ways to get your students really excited about maths.
Saturday 22 January 2022 **9:30am-10:30am**	Nira Chamberlain is President of the Institute of Mathematics and its Applications and has over 25 years' experience writing mathematical models and simulation algorithms that solve complex industrial problems.	*Nira Chamberlain and The Monte Carlo Simulation* In this eye-opening session, Nira will guide you through the fascinating mathematics of the Monte Carlo method and explain why he is fascinated by this much used yet little-know branch of probability theory.
Saturday 22 January 2022 **11am-12pm**	Dr Tamsin Edwards is an award-winning communicator and regularly advises the UK Government on sea-level rise, climate science and science communication.	*Climate modelling with Tamsin Edwards* In a recent survey, 68% of students expressed that they want to learn more about climate change and the environment. In this talk, you'll hear how Tamsin uses climate data and simple climate models in her own teaching and this will provide you with inspiration to adapt them for your own lessons.

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Tuesday 25 January 2022 **4:30pm-5:30pm**	Andy Field is author of the bestselling textbook _Discovering Statistics_ for which he won the British Psychological Society book award in 2007. Most recently, he published _An Adventure In Statistics: The Reality Enigma_ which aims to teach statistics through a fictional story.	_Andy Field's Adventure in Statistics_ During this talk, Andy will discuss the importance of statistical literacy as a transferable skill, and the difficulties that Psychology students without maths backgrounds face during their degrees. You'll also leave with ideas about how to engage Psychology students in learning to think statistically.
Wednesday 26 January 2022 **4:30pm-5:30pm**	Jordan Ellenberg is the internationally-bestselling author of _How Not To Be Wrong_ and _Shape_. He is a professor of mathematics at the University of Wisconsin-Madison, with a Ph.D. in mathematics from Harvard and an MFA in creative writing from John Hopkins. Jordan has written articles on mathematical topics in the New York Times, the Washington Post and the Wall Street Journal.	_How Not to Be Wrong with Jordan Ellenberg_ In his talk, Jordan will debunk the view that the maths we learn at school is a dull set of rules, laid down by the ancients, not to be questioned. He'll explore how maths touches everything we do and will allow us to see the hidden structures beneath the messy and chaotic surface of our daily lives. This fascinating talk will ignite your curiosity and leave you with a host of responses to "when will I ever use that?"
Thursday 27 January 2022 **4:30pm-6pm**	Leila Schneps and Coralie Colmez are the truly inspiring mother and daughter co-authors of _Math on Trial: How Numbers Get Used and Abused in the Courtroom_. Leila is an American mathematician and fiction writer and works at French National Centre for Scientific Research on number theory. Coralie read mathematics at Cambridge University, won the Ryan Prize in Higher Mathematics, and is Director and Co-Founder of the student destination platform, _Unifrog_.	_Maths on Trial with Coralie Colmez and Leila Schneps_ During this enlightening talk, Coralie will explore cases from the book with an emphasis on how to use them in the classroom. Leila will then delve into some new cases and demonstrate how to think about the world around us with an awareness of error. There will also be an opportunity to find out more about Unifrog and the extensive resources available for maths teachers and students. Please note that this talk is 1.5 hours in order to provide plenty of time for questions at the end. If you're only able to attend from 4.30pm-5.30pm, then you'll still get to hear the full _Maths on Trial_ talk. _**Trigger warning** This talk will feature the tragic case of Sally Clark who, in 1999, was wrongly convicted in a court of law of murdering her sons._

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