Maths in ACTION

London

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2025

Maths in Action

For A-level, IB, BTEC Level 3 and T Level maths students

Join us for the ultimate A-level maths enrichment day! Maths in Action brings an exciting day of interactive learning for students! Through engaging sessions led by top academics, industry leaders, and expert communicators, students will discover the power of maths beyond the classroom—from pure maths to real-world applications.

A special Exam Success session will provide students with expert strategies to boost confidence and exam performance. With live polls, quizzes, and plenty of opportunities to engage with speakers, this is maths like never before.

Host: Matt Pritchard (STEM Communicator)

Exam Session: Nicole Cozens

- The man who cannot lose
- Machine learning with a pile of matchboxes
- Stats Important!
- Can maths help to save the polar regions?
- Fractals: Journey to the 2.7th Dimension

Emmanuel Centre, London,
London,
SW1P 3DW

Venue: £25.50 +VAT *

Plus one COMPLIMENTARY staff ticket per 10 students.

*VAT may be reclaimable. Please check with your finance department

Education in Action is the leading provider of inspirational, informative, Education in Action study days for A-level, IB, BTEC and GCSE students.

Award-winning, world-class speakers
Cutting-edge content
Thought-provoking demos and presentations
Examination hints, tips and guidance
Modestly priced to offer access to all
Complimentary staff ticket for every 10 students booked
Bookings can be amended up to 28 days before the event day

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The man who cannot lose /
Matt Pritchard – Scientist and Magician

It's the taking part (and winning) that counts. From childhood games through to the greatest gamble of his life, magician Dr Matt Pritchard is on an obsessed quest to come out on top. Matt will be revealing the hidden mathematics and winning strategies behind games like Pass the Parcel, Guess Who?, Rock Paper Scissors and Russian Roulette.

Dr Matt Pritchard is a magician and a member of the Magic Circle. He is a lapsed atomic physicist with a love of recreational maths. He is also a member of the Science of Magic Association, which aims to foster research collaborations between magicians and psychologists. (Photo credit: Twist Museum)

Can maths help to save the polar regions? /
Sammie Buzzard – Northumbria University, Assistant Professor in Polar Observation and Modelling

In this session Dr Sammie Buzzard will show some of the applications of maths for investigating how our polar regions are being impacted by climate change. This includes using numerical simulations, satellites and even trying to do integration in a tent in Greenland!

Dr Sammie Buzzard is a glaciologist and climate scientist who uses maths to investigate how our polar regions are changing and what this might mean for the future. This has taken her to some unexpected places, including the Arctic.

Machine learning with a pile of matchboxes /
Matthew Scroggs – University College London

Back in the 1960s, computer pioneer Donald Michie created something extraordinary: MENACE, a "machine" made entirely of matchboxes that could learn to play noughts and crosses. In this talk, we'll challenge a modern replica of MENACE—built by Matthew—to a live game and watch as it learns, adapts, and tries to outsmart us one move at a time.

When not working Matthew writes puzzles and articles for Chalkdust Magazine, including the infamous crossnumber, and reads Martin Gardner books.

Fractals: Journey to the 2.7th Dimension /
Katie Steckles – Mathematician and Communicator

Fractals are never-ending intricate mathematical patterns. Katie Steckles shows the beauty of fractals, exploring these intriguing structures and explaining why she finds them so fascinating. From constructing simple fractal shapes to running a worldwide fractal-building project, Katie demonstrates why fractals captured her mathematical imagination and why she finds magnificence in their infinity.

Katie is a mathematician based in Manchester, who talks about mathematics at universities, schools events, festivals, on BBC radio and TV, in books and on the internet.

Stats Important! /
Jennifer Visser-Rogers – Chief Scientific Officer

Jen has used statistics to answer all sorts of questions about topics such as climate change and medicine. In this talk, she'll be taking you through three of the most important concepts in statistics as she looks at extreme weather events, pharmaceutical drug trials, and more.

Prof Jennifer Visser-Rogers is an experienced statistical consultant and a popular science communicator and presenter. With expertise in clinical trial methodologies, she combines high-calibre research and commercial insight to advance drug development, ensuring treatments align with market needs.

Education in Action

Gilmoora House | 57-61 Mortimer Street | London W1W 8HS

020 3008 6441 | office@educationinaction.org.uk

www.educationinaction.org.uk