

DEC
7
2023

GCSE Maths in Action

Welcome to our GCSE Maths in Action day!

The goal of our GCSE Maths in Action day is to help students deepen their understanding of key mathematical concepts, improve their problem-solving skills and most importantly, generate excitement for all things maths! Our experienced speakers will guide your students through a variety of engaging and interactive activities that are designed to enhance learning and leave them wowed.

As part of our GCSE maths day, we also offer an Exam Masterclass for your students. This class is designed to provide students with the knowledge and skills they need to excel in their GCSE maths exams. The class is led by experienced examiners who have a deep understanding of the exam format and the types of questions that are likely to be asked.

We look forward to working with you and helping your students achieve their full potential in maths!

Host: Sophie Maclean (*Mathematician & Communicator*)

- Using a Chessboard for Anything Other Than Chess
- Over-analysing Video Games
- Mathemusic
- Patterns and Predictions
- Maths v Sport



Emmanuel Centre, London,
London,
SW1P 3DW



Venue: £18.50 +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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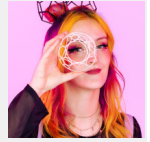
GCSE Maths
in ACTION

Using a Chessboard for Anything Other Than Chess / Aylean MacDonald - Maths Artist and Content Creator



If you understand the basic rules to chess, I have no doubt at all that you could beat me! But chessboards can be used for so much more (she says to hide the fact she's awful at chess). We will look at puzzles, solved, unsolved, and unsolvable, which take place on the land of the chessboard.

Aylean, brimming with nerdiness and creativity, showcases the beauty of Math through art and videos. Catch them on TikTok, Numberphile, hosting weekly Maths Circle livestreams for charity, and serving as the Community Mathematician 2023 for MathsCity Leeds.



Patterns and Predictions / Colin Wright - Mathematician and Juggler



Here we talk about about puzzles, patterns, and finish with finding some unexpected patterns in juggling!

Colin received his maths doctorate in 1990 from Cambridge University. While at Cambridge he also learned how to fire-breathe, unicycle, juggle and ballroom dance.



Over-analysing Video Games / Matthew Scroggs - University College London



Matt will apply some mathematical thinking to Pac-Man and other video games. We will work out the shortest possible route to complete a Pac-Man level, and discover the 2-, 3- and 4-dimensional shapes that video game characters live on.

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



Maths v Sport / Tom Crawford - University of Oxford



How do you take the perfect penalty? What is the limit of human endurance? Where is the best place to attempt a world record? Maths has all of the answers and in this talk Dr Tom Crawford will explain how you can use it to be improve your performance in a range of sports.

Dr. Tom Crawford, a mathematician at the University of Oxford, shares his love for math through tomrocksmaths.com, performing as the 'Naked Mathematician,' showcasing favorite equations on Numberphile, and sporting math tattoos (14 and counting).



Mathemusic / Sophie Maclean - Mathematician and Communicator



The links between music and maths have been studied for millennia. Even Brian May has a maths degree! Both maths and music possess their own beauty, but together become something quite magical. In this exciting and interactive talk, Sophie explores the connections between the two. Bring your best singing voices!

Sophie is a Maths Communicator and a member of the team behind Chalkdust Magazine. She has previously worked as a Quantitative Trader, a Software Engineer, and a Maths tutor.



Education in Action

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