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2019

GCSE Maths in Action

Do your students wonder what mathematicians do?

At our interactive and inspirational day they will discover how classroom maths is used by people every day in fields from statistics and engineering to research mathematics. Five renowned speakers from universities, industries and the media reveal mathematics at its very best and your students will have a whole lot of fun along the way!

- Guy Martin's wall of death and other spinning things
- Tor, statistics and the dark net
- The maths of chocolate fountains
- When the Uncertainty Principle Goes to 11 (...or The Mathematics of Heavy Metal)
- A mind for maths



Emmanuel Centre, London
9 – 23 Marsham Street
London, SW1P 3DW



£19 + VAT*

Plus one COMPLIMENTARY staff ticket per 10 students. *VAT may be reclaimable please check with your finance department

ttp 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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Guy Martin's wall of death and other spinning things / [Hugh Hunt](#)



In a presentation full of exciting demonstrations Hugh will answer some fundamental questions including, why does a spinning top stand up? And how do cats always manage to land upright?

Dr Hugh Hunt is a Reader in Engineering Dynamics and Vibration at Cambridge University. He is a regular presenter on Channel 4 documentaries, including "Dambusters: Building the Bouncing Bomb"



When the Uncertainty Principle Goes to 11 (...or The Mathematics of Heavy Metal) / [Philip Moriarty](#)

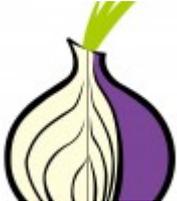


Join Phillip to discover how sine waves underpin every chugging guitar riff, what trigonometry has to do with Iron Maiden, and why metalheads in mosh pits are such a great example of statistics in action.

Philip Moriarty is a professor of physics, a heavy metal fan, and a keen air-drummer. His research focuses on prodding, pushing, and poking single atoms and molecules.



Tor, statistics and the dark net / [Cerys Bradley](#)



The dark net is a part of the internet designed to let users hide their identity. Cerys will shine a light on this private world of political activism, cybercrime and more using the immense power of statistics.

Cerys uses maths to investigate the impact of law enforcement interventions on Dark Net Market users. She is interested in Privacy Enhancing Technologies and Cybercrime.



A mind for maths / [Bobby Seagull](#)



Bobby rose to national prominence as a captain of the Emmanuel Cambridge team on the BBC University Challenge quiz. Here he selects his dream team of four mathematicians from history and explains why each person deserves to be on his

Bobby was an investment banking trader, chartered accountant, social entrepreneur and a semi-finalist captain on University Challenge. He is an author, TV presenter and now teaches Maths.



The maths of chocolate fountains / [Adam Townsend](#)



We find out how to make predictions for chocolatey flows, and then work out (a) whether we can use other types of chocolate, (b) whether we could make a pioneering ketchup fountain and (c) why chocolate fountains fall *inwards*.

Adam investigates complex, weirdly-behaving fluids and how objects and organisms move through them. He also give popular maths lectures for all ages across the UK.



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