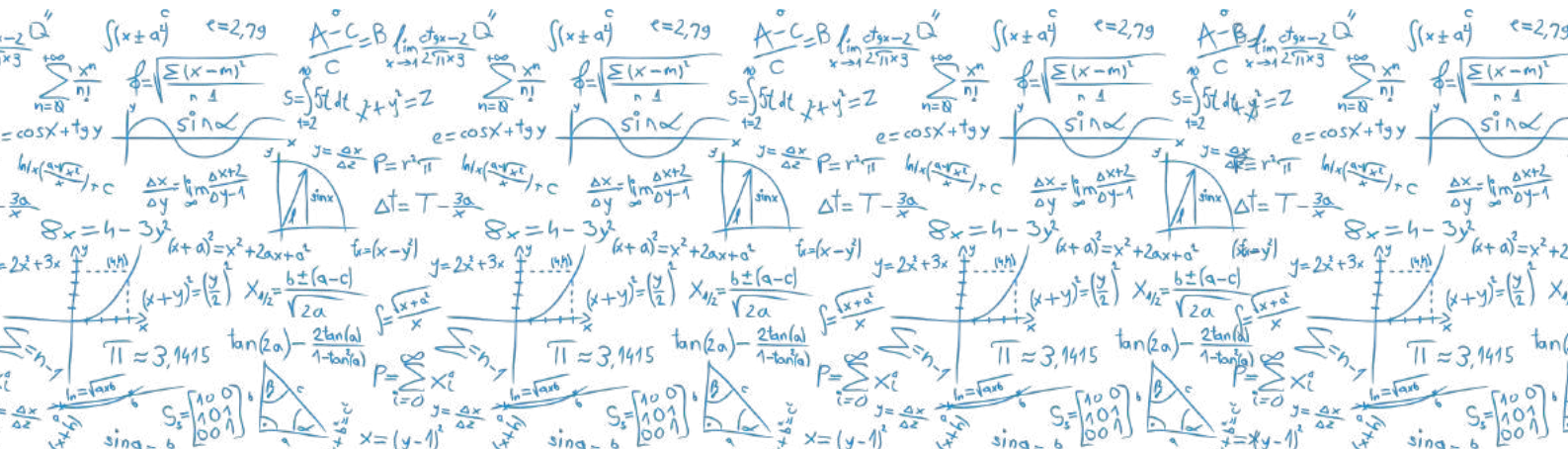


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MATHS MASTERCLASS PROGRAMME 2023/2024



SATURDAY 4TH NOVEMBER

UNIVERSITY
OF ABERDEEN**Interesting Numbers****By Brenda Harden, University of Aberdeen**

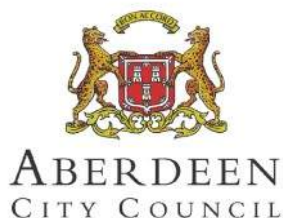
A journey from very small to very large numbers. Find out how maths is used in 'The Simpsons' and learn some mathematical magic too!

SATURDAY 18TH NOVEMBER

**Fish, Flies and a Fig Tree****By Dr Garry Brindley**

During this interactive class we will be looking at iterations, and the logistic map or function applied to animal populations. We will meet many characters along the way; including fish, flies and a fig tree.

SATURDAY 2ND DECEMBER

**Giant numbers, tiny numbers and the power of the powers of ten**

Join Sarah Taylor and Ruairaidh Proctor as they explore the world of numbers. Throughout this session we will use estimation to make sense of data and solve absurd problems.

SATURDAY 20TH JANUARY

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**Anyone for tennis ... and maths?****By Adrian McBurnie**

Following "The Battle of the Brits" tennis tournament hosted in Aberdeen in December, in this masterclass we explore three mathematical ideas and see how we can combine them to calculate how likely Andy Murray, Emma Raducanu or any other tennis player is to win a match if we know how likely they are to win an individual point.

SATURDAY 3RD FEBRUARY

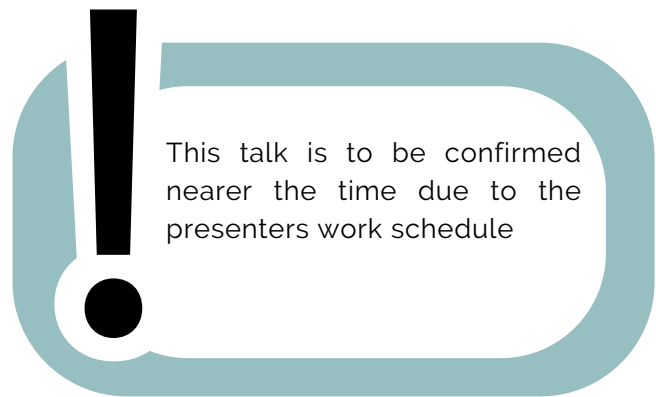


Really Secret Codes By Professor Ben Martin

Cryptography is the science of sending secret messages; it is what keeps your credit card details safe when you buy things online. Professor Ben Martin will discuss cryptography in ancient and modern times. He will demonstrate how to make secret codes - and how to break them!

SATURDAY 17TH FEBRUARY

$$M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$



SATURDAY 2ND MARCH



Diabetes and Drug Discovery

Join Professor Mirela Delibegovic from the University of Aberdeen to find out more about the Mathematics involved in the life sciences. This class will give an insight into the skills required as a life scientist using diabetes as the disease model. We will also explore themes of drug discovery and the challenges that spin-off companies have when balancing the numbers.

SATURDAY 16TH MARCH



The Million Dollar Equation Presented by Dr Tom Crawford: Tom Rocks Maths

Seven maths problems, each with a \$1-million prize...Learn about the maths behind some of the most difficult questions facing mathematics today- from understanding the quantum world, to identifying patterns in the prime numbers- and what you need to do to get your hands on the prize money!

Please note this programme is for registered Masterclass pupils only