SPONSORED BY

SERICAENERGY

TECHFEST
Promoting Science, Technology, Engineering and Mathematics
Scottish Charity No SC010349

Ri The Royal Institution
Science Lives Here
Masterclass network

MATHS MASTERCLASS PROGRAMME 2025/2026

SATURDAY 1ST NOVEMBER

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 8TH NOVEMBER

Really Secret Codes
By Professor Ben Martin, University of Aberdeen

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 22ND NOVEMBER

Diabetes and Drug Discovery
By Professor Mirela Delibegovic, University of Aberdeen

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 6TH DECEMBER

Giant numbers, tiny numbers and the power of the powers of ten
By Sarah Taylor and Ruaraidh Proctor

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

Supported by

Please note this programme is for registered Masterclass pupils only

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

SATURDAY 24TH JANUARY

Who wants to win $1 million?
By Adrian McBurnie, EnQuest

What do Countdown, organising a party and scheduling helicopters to take workers to oil platforms have in common? They are all linked to a problem that has a $1,000,000 prize available to whoever can solve it first. In this masterclass we will be exploring the problem.

SATURDAY 21ST FEBRUARY

Energising the Transition
By TechFest

Every day, billions of people are using electricity to power our world. But where does this electricity come from? In this masterclass, get hands on with the different ways we generate electricity. Test your skills to see if you can design an energy system, and calculate the requirements to support an island population.

SATURDAY 7TH MARCH

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

This talk is to be confirmed nearer the time

SATURDAY 21ST MARCH

Knot
By Dr Meadhbh Boyle, University of Aberdeen

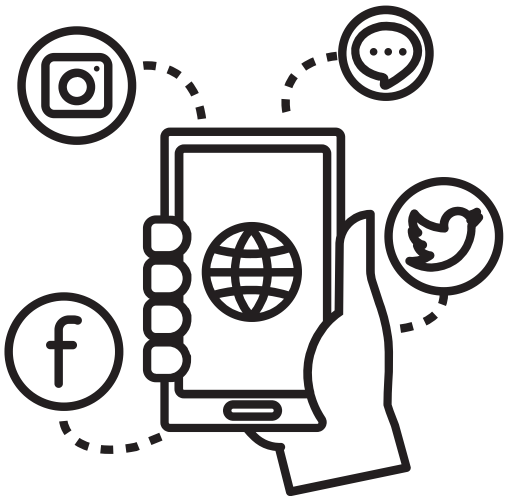
A mathematical knot is formed when we take a piece of string, form some loops and then join the ends together so that it cannot be untied without cutting it. This class will explore this concept further and learn some interesting facts about knots.

Please note this programme is for registered Masterclass pupils only

TechFest Aberdeen

@TechFestNews

@TechFestAberdeen



WWW.TECHFEST.ORG.UK

Please note this programme is for registered Masterclass pupils only