

**10.00 – 11.30 a.m.**  
Including Q&A Session

# FREAKY PROBABILITY

**SUITABLE FOR YEAR 7 & YEAR 8**

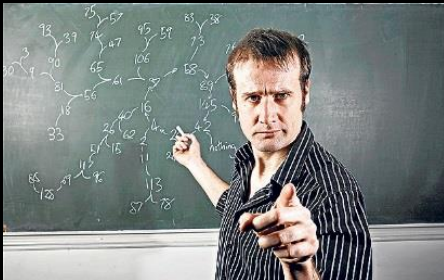
Humans are notoriously bad at correctly understanding probability from an intuitive sense. Students will be shown a range of interesting probability situations. Topics: lottery probability, birthday coincidence, non-transitive dice, Penney's game. This session will show some examples of unexpected results in probability, using familiar terminology.

**1.00-2.30 p.m.**  
Including Q&A Session

# THE NUMBER MATRIX:

**The Hidden Mathematics of Technology**  
**SUITABLE FOR YEAR 9 & YEAR 10**

There are numbers all around us that make our modern lives possible. From rescuing your lost words in text messages to protecting your Facebook profile, we rely on numbers to transmit and protect information – not just numbers, but text, pictures and sound – every day. In this highly engaging session, your eyes will be opened to the ubiquitous sea of numbers in which we all live.



Matt Parker

**Y7 & Y8**

**Y9 & Y10**

**DATE**

**4th February 2016**

**10.00 – 11.30 a.m.**

**1.00 – 2.30 p.m.**

**MATHS IS FUN**

**KEEP DOING MATHS**

For more information:  
[sarah.dixon@denbighshire.gov.uk](mailto:sarah.dixon@denbighshire.gov.uk)



**MATT PARKER**

Matt Parker, known as the Stand-up Mathematician, can be seen talking about Maths on the BBC, in The Guardian and on stages across the UK - at science fairs, festivals and in theatres. Once a normal Maths Teacher, his first love is still visiting schools through Think Maths to give engaging maths talks and run hands-on activities. Matt talks about Mathematics for organisations including the Royal Institution and the BBC and he was the People's Choice Award in the 2009 national Famelab competition. He was the 2011 winner of the Joshua Phillips award for Public Engagement. His favourite number is currently 496.

## FREAKY PROBABILITY

Presentation only - KS3, KS4, KS5

Humans are notoriously bad at correctly understanding probability from an intuitive sense. Students will be shown a range of interesting probability situations.

Topics: lottery probability, birthday coincidence, non-transitive dice, Penney's game.

This session will show some examples of unexpected results in probability, using familiar terminology.



## THE HIDDEN MATHS OF TECHNOLOGY

Presentation or Workshop - KS4 and KS5

There are numbers all around us that make our modern lives possible. From rescuing your lost words in text messages, to taking selfies.

Topics: barcodes and check digits, error correction, binary numbers & ASCII, mathematics behind digital images.

This session will show students the mathematics behind modern technology and emphasise the importance of learning maths for future tech careers.

