

**The Simpsons and their
Mathematical Secrets**

Simon Singh

You may have watched hundreds of episodes of The Simpsons (and its sister show Futurama) without ever realising that they contain enough maths to form an entire university course.

In The Simpsons and Their Mathematical Secrets, Simon Singh explains how the brilliant writers, some of the mathematicians, have smuggled in mathematical jokes throughout the cartoon's twenty-five year history, exploring everything from Mersenne primes, from Euler's equation to the unsolved riddle of P vs. NP, from perfect numbers to narcissistic numbers, and much more.

With wit, clarity and a true fan's zeal, Singh analyses such memorable episodes as 'Bart the Genius' and 'Homer³' to offer an entirely new insight into the most successful show in television history.

Fermats Last Theorem

Simon Singh

In 1963, schoolboy Andrew Wiles stumbled across the world's greatest mathematical problem: Fermat's Last Theorem. Unsolved for over 300 years, he dreamed of cracking it.

Combining thrilling storytelling with a fascinating history of scientific discovery, Simon Singh uncovers how an Englishman, after years of secret toil, finally solved mathematics' most challenging problem.

Fermat's Last Theorem is remarkable story of human endeavour, obsession and intellectual brilliance, sealing its reputation as a classic of popular science writing.

Innumeracy

John Allen Paulos

Why do even well-educated people often understand so little about maths - or take a perverse pride in not being a 'numbers person'?

In his now-classic book Innumeracy, John Allen Paulos answers questions such as: Why is following the stock market exactly like flipping a coin? How big is a trillion? How fast does human hair grow in mph? Can you

calculate the chances that a party includes two people who have the same birthday? Paulos shows us that by arming yourself with some simple maths, you don't have to let numbers get the better of you

The Black Swan

Nassim Nicholas Taleb

The phenomenal international bestseller that shows us how to stop trying to predict everything - and take advantage of uncertainty

What have the invention of the wheel, Pompeii, the Wall Street Crash, Harry Potter and the internet got in common? Why are all forecasters con-artists? Why should you never run for a train or read a newspaper?

This book is all about Black Swans: the random events that underlie our lives, from bestsellers to world disasters. Their impact is huge; they're impossible to predict; yet after they happen we always try to rationalize them.

Eddie Woo's Magical Maths

Eddie Woo

A bumper book of fun with maths stuffed with things to draw, puzzle, invent, order, unscramble, code, decode for kids aged 7+ years from Australia's best known maths man. There's magic in maths - if you know where to look...

Humble Pi: A Comedy of Maths Errors

Matt Parker

****The First Ever Maths Book to be a No.1 Bestseller****
'Wonderful ... superb' Daily Mail

What makes a bridge wobble when it's not meant to? Billions of dollars mysteriously vanish into thin air? A building rock when its resonant frequency matches a gym class leaping to Snap's 1990 hit I've Got The Power? The answer is maths. Or, to be precise, what happens when maths goes wrong in the real world.

As Matt Parker shows us, our modern lives are built on maths: computer programmes, finance, engineering. And most of the time this maths works quietly behind the scenes, until ... it doesn't. Exploring and explaining a litany of glitches, near-misses and mishaps involving the

internet, big data, elections, street signs, lotteries, the Roman empire and a hapless Olympic shooting team, Matt Parker shows us the bizarre ways maths trips us up, and what this reveals about its essential place in our world.

Mathematics doesn't have good 'people skills', but we would all be better off, he argues, if we saw it as a practical ally. This book shows how, by making maths our friend, we can learn from its pitfalls. It also contains puzzles, challenges, geometric socks, jokes about binary code and three deliberate mistakes. Getting it wrong has never been more fun.

Weird Maths

**Agnijo Banerjee and
David Darling,**

Is anything truly random? Does infinity actually exist?
Could we ever see into other dimensions?

In this delightful journey of discovery, David Darling and extraordinary child prodigy Agnijo Banerjee draw connections between the cutting edge of modern maths and life as we understand it, delving into the strange – would we like alien music? – and venturing out on quests to consider the existence of free will and the fantastical future of quantum computers. Packed with puzzles and paradoxes, mind-bending concepts and surprising solutions, this is for anyone who wants life's questions answered – even those you never thought to ask.

**The Maths of Life and
Death: Why Maths is
(Almost) Everything**

Kit Yates

"This is an exquisitely interesting book. It's a deeply serious one too and, for those like me who have little maths, it's delightfully readable" - IAN MCEWAN

"Kit Yates is a natural storyteller. Through fascinating stories and examples, he shows how maths is the beating heart of so much of modern life. An exciting new voice in the world of science communication" - MARCUS DU SAUTOY

"Used wisely, mathematics can save your life. Used unwisely, it can ruin it. A lucid and enthralling account of why maths matters in everyone's life. A real eye-opener." - Prof Ian Stewart FRS, author of Do Dice Play God?

The Martian

Andy Weir

Nominated as one of America's best-loved novels by PBS's The Great American Read

Six days ago, astronaut Mark Watney became one of the first people to walk on Mars.

Now, he's sure he'll be the first person to die there.

After a dust storm nearly kills him and forces his crew to evacuate while thinking him dead, Mark finds himself stranded and completely alone with no way to even signal Earth that he's alive--and even if he could get word out, his supplies would be gone long before a rescue could arrive.

Chances are, though, he won't have time to starve to death. The damaged machinery, unforgiving environment, or plain-old "human error" are much more likely to kill him first.

But Mark isn't ready to give up yet. Drawing on his ingenuity, his engineering skills--and a relentless, dogged refusal to quit--he steadfastly confronts one seemingly insurmountable obstacle after the next. Will his resourcefulness be enough to overcome the impossible odds against him?

Short History of Nearly Everything

Bill Bryson

The ultimate eye-opening journey through time and space, A Short History of Nearly Everything is the biggest-selling popular science book of the 21st century and has sold over 2 million copies.

'Possibly the best scientific primer ever published.' Economist

'Truly impressive...It's hard to imagine a better rough guide to science.' Guardian

'A travelogue of science, with a witty, engaging, and well-informed guide' The Times

Bill Bryson describes himself as a reluctant traveller, but even when he stays safely at home he can't contain his curiosity about the world around him. *A Short History of Nearly Everything* is his quest to understand everything that has happened from the Big Bang to the rise of civilization - how we got from there, being nothing at all, to here, being us.

Bill Bryson's challenge is to take subjects that normally bore the pants off most of us, like geology, chemistry and particle physics, and see if there isn't some way to render them comprehensible to people who have never thought they could be interested in science. As a result, *A Short History of Nearly Everything* reveals the world in a way most of us have never seen it before.