

Reading beyond the classroom

Maths, Years 7 – 9.

While in Years 7, 8, and 9 students should try and read a wide variety of books. Books, newspapers and magazines are a good source of reading and these types of text will help prepare students to be broader minded with their real life applications of mathematics and will hopefully contribute to their accurate application of mathematics in, for example, becoming economically independent citizens. Of course, this will also contribute to students' successes at GCSE and beyond to provide them with adequate stepping stones to their desired career.

There are a number of high-quality websites:

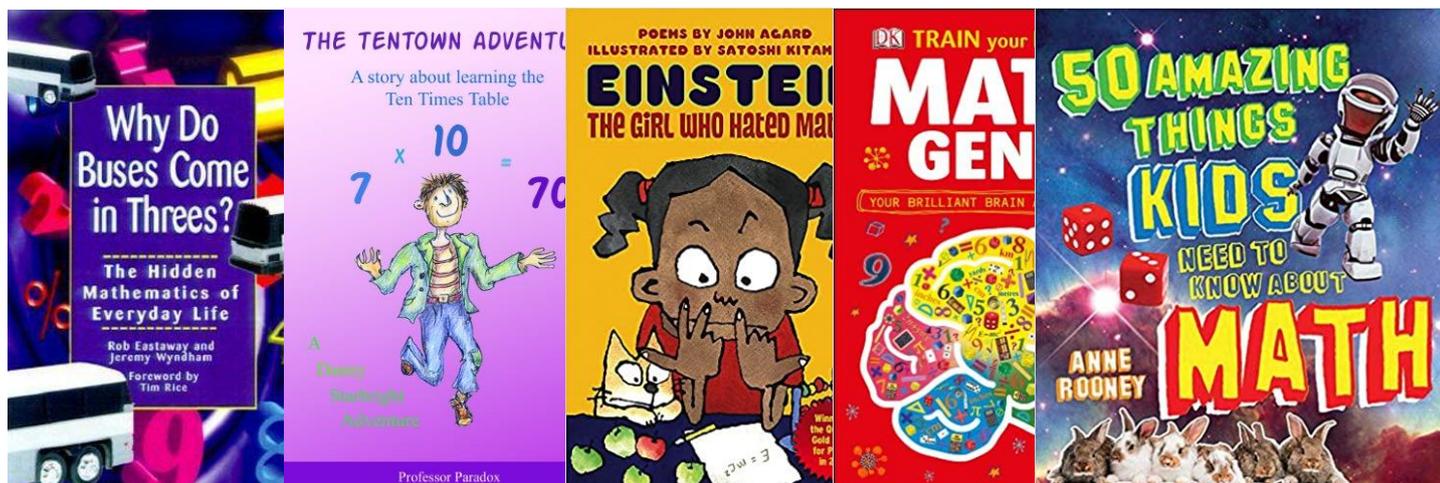
<https://nrich.maths.org/>

<https://www.mathsisfun.com/puzzles/>

<https://www.transum.org/Software/Puzzles/>

<https://simplifytasks.com/2020/01/05/emmas-dilemma-permutations-with-unique-repeating-letters-mathstutorial/>

In addition to this, our recommendations follow below. These texts do not form part of our schemes of work so reading them will not spoil students' enjoyment of future lessons. They will most likely complement the work we do.



Lower School

Rob Eastway and Jeremy Wyndham *Why Do Buses Come in Threes?*

Why are showers always too hot or too cold? And which classic puzzle was destroyed by Allied bombing in the war? These and many other questions are answered in this entertaining and highly informative book.

This book is for anyone who wants to remind themselves--or discover for the first time--that math is relevant to almost everything we do. Dating, cooking, traveling by car, gambling, and life-saving techniques all have links with intriguing mathematical problems that are explained here. This book will change the reader's perception of the world around them.

Rob Eastway and Jeremy Wyndham *How Long is a Piece of String?*

You will find that many intriguing everyday questions have mathematical answers. Discover the astonishing 37% rule for blind dates, the avoidance tactics of the gentleman's urinal, and some extraordinary scams that have been devised to get rich quick. Also included are the origins of the seven-day week and the seven-note scale, an explanation of why underdogs win, clever techniques for detecting fraud, and the reason why epidemics sweep across a nation and disappear just as quickly. Whatever your mathematical ability, this fun, thought-provoking book will illuminate the ways in which math underlies so much in our everyday lives.

Rob Eastway

How Many Socks Make a Pair?

Do you gaze into your washing basket and wonder how long it'll take to find a pair of socks? Behind this question is a world of maths that can be creative, surprising and sometimes even beautiful. Using playing cards, a newspaper, the back of an envelope, a Sudoku, some pennies and of course a pair of socks, Rob Eastway shows how maths can demonstrate its secret beauties in even the most mundane of everyday objects. Among the many fascinating curiosities in these pages, you will discover the strange link between limericks and rabbits, an apparently 'fair' coin game where the odds are massively in your favour, why tourist boards can't agree on where the centre of Britain is, and how simple paper folding can lead to a Jurassic Park monster. With plenty of ideas you'll want to test out for yourself, this engaging and refreshing look at mathematics is for everyone.

Professor Paradox
Learning Multiplication

The Numberland Tales Collection – Stories about

This is a collection stories in which Danny Starbright has a series of adventures in Numberland during the course of which he learns times tables. The learning of tables is subtly woven into the narrative in a way that makes them integral to the story, so that whilst enjoying a good yarn, children, whether readers or listeners, will simply enjoy the action.

The stories themselves progress in terms of reading difficulty and age appropriateness in order to coincide with tables learning age, although they can be used as a prelude to learning multiplication. The stories don't just teach the tables and principles of multiplication, but also their practical application in daily life.

Kjartan Poskitt

Murderous Maths Collection

Murderous Maths Collection 10 books Set (Desperate Measures, Do You Feel Lucky? Easy Questions, Evil Answers: Guaranteed to Bend Your Brain, Guaranteed to Mash Your Mind: More Murderous Maths, The Key to the Universe, The Phantom X, Savage Shapes). These books are amazing-you get to learn lots of stuff and it's funny! There are 10 books with usually each book covering a different field in maths. It has a lot of jokes but it is also educational. There are interesting facts like the millionth digit of pi is 1 and the billionth is 9. Great for people who don't usually enjoy maths. These books have a lot of fictional characters-from Pongo McWhiffy to the evil Gollarks who are aliens. The drawings are amazing. I would really recommend it to anyone looking for some good book to read.

John Agard

Einstein, The Girl Who Hated Maths

From the mysterious power of the decimal point to the oddity of odd numbers, fun and wonder are the essence of these remarkable poems. The winner of the Queen's Gold Medal for Poetry takes us through the delight and silliness maths has to offer.

Subjects range from the title poem in which Einstein's number-loving parents persuade her of the fun they have with maths, to poems about the magic number nine, the power of the decimal point, and the ancient Inca counting device the Quipo.

DK

Train Your Brain to be a Maths Genius

This captivating and comprehensive introduction to the wonders of numbers includes an exploration of amazing algebra, puzzling primes, super sequences, and special shapes. Put your brain through its paces in a variety of exciting activities, challenges, tips, and tricks. Expect tantalising tests with questions to answer, codes to crack, puzzles to solve, and illusions to inspire you along the way. Meet the big names and even bigger brains who made mathematical history, such as Pythagoras, and Isaac Newton, and Alan Turing. Combining fun and facts in one complete unputdownable package, this is a welcome boost for brains everywhere.

Anne Rooney

50 Amazing Things Kids Need to Know About Math

Have you ever wondered why you need to study maths? Do you feel that maths is not cool or interesting? Then this book will help you realize that maths is important and fascinating. It will

teach you do much more than find the sum of two numbers or to determine the area of a triangle. Inside, you'll learn how to bend a building, how to make a ghost, how to solve a crime, how to crack codes, and much more! This book has something for everyone, whether you are interested in contacting aliens, becoming a pop star, or even getting rich. It is packed with fun activities and helpful diagrams, making the path to becoming a maths mastermind simple, creative, and exciting.

Poskitt Kjartan

The Magic of Maths

Murderous Maths: Data is full of facts, tricks and tips to help children discover the power of probability, and why fractions are fantastic. Updated for the relaunch of the primary national curriculum in autumn 2014, children can learn all about savage statistics, odd odds, deadly decimals and much more with simple explanations and hilarious characters to guide them through. Illustrated by Philip Reeve and presented in a bold, funky and accessible way so children can find out why maths is marvellous, a new generation of Kjartan Poskitt fans will be able to discover the world of Murderous Maths. Get ready to be amazed!

Liz Strachan

Easy as Pi: Maths Made Simple

If you're brilliant at everything else, but lack confidence when it comes to maths, join Liz Strachan, a maths teacher with many, many years of experience, on this magical tour through the seeming mysteries of numbers, algebra and geometry.

Hilary Koll

You Do the Maths: Launch a Rocket into Space

If your child thinks maths has nothing to do with their everyday life, it's time to get them to solve a crime, launch a rocket, design a skyscraper or fly a jet fighter with the help of some numbers and calculations. The comic-strip *You Do the Maths* books offer real-life and exciting maths challenges, with a glossary to explain new concepts.

Hilary Koll

You Do the Maths: Solve a Crime

Follow each stage of the case and complete the maths exercises to track down and catch the criminal.

From addition and decimals to line graphs and pie charts, these books have different challenges to be solved with a varying range of difficulty.

Hilary Koll

You Do the Maths: Design a Skyscraper

Find out what it takes to build high in the sky. Follow each stage of the project and complete the math exercises to build one of the world's tallest buildings! We're counting on YOU to do the math! Featuring math problems from addition and decimals to line graphs and pie charts, these books have different challenges to be solved with a varying range of difficulty.

Simon Singh

The Simpsons and Their Mathematical Secrets

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.

Linda Nguyen

Maths Riddle for Smart Kids

Riddles are a wholesome, fun, and learning-filled activity both for kids and adults alike. They are perfect for children growing up to be intelligent, smart, and wise adults.

Math is a subject that can make a few people jump with joy while driving many crazy with its seemingly complex formulae, rigid structure, and complicated way of thinking.

'A child who reads will be an adult who thinks.'

Sasha Salmina (Artist)