

WIDER READING IN MATHS

We promote reading in Maths by finding opportunities within the curriculum that allow us to explore the history of mathematics as well as areas of everyday life where Maths plays a big part. This takes the form of guided reading activities where a short extract is followed up by comprehension and further discussion opportunities.

	Term 1	Term 2	Term 3
Year 7	Guided reading Who invented the zero	Guided reading A brief history of Algebra	Guided reading Football pitches
Year 8	Guided reading Alan Turing	Guided reading A brief history of pi.	Guided reading $E = mc^2$: Einstein's equation that gave birth to the atom bomb
Year 9	Guided reading Pythagoras	Guided reading A Brief History of time	Guided reading Tessellation
Year 10	Guided reading Katherine Johnson	Guided reading Sequences	Guided reading A brief history of constructions
Year 11	Complete work on the definitions of key mathematical words have other meaning in the wider world.	Complete work on the definitions of key mathematical words have other meaning in the wider world.	Complete work on the definitions of key mathematical words have other meaning in the wider world.



Alex's Adventures in Numberland

The world of maths can seem mind-boggling, irrelevant and, let's face it, boring. This groundbreaking book reclaims maths from the geeks. Mathematical ideas underpin just about everything in our lives: from the surprising geometry of the 50p piece to how probability can help you win in any casino.

In search of weird and wonderful mathematical phenomena, Alex Bellos travels across the globe and meets the world's fastest mental calculators in Germany and a startlingly numerate chimpanzee in Japan.

Packed with fascinating, eye-opening anecdotes, Alex's Adventures in Numberland is an exhilarating cocktail of history, reportage, and mathematical proofs that will leave you awestruck.

Alex Through the Looking Glass

From triangles, rotations and power laws, to fractals, cones and curves, bestselling author Alex Bellos takes you on a journey of mathematical discovery with his signature wit, engaging stories and limitless enthusiasm. As he narrates a series of eye-opening encounters with lively personalities all over the world, Alex demonstrates how numbers have come to be our friends, are fascinating and extremely accessible, and how they have changed our world.

He turns even the dreaded calculus into an easy-to-grasp mathematical exposition, and sifts through over 30,000 survey submissions to reveal the world's favourite number. In Germany, he meets the engineer who designed the first roller-coaster loop, whilst in India he joins the world's highly numerate community at the International Congress of Mathematicians. He explores the wonders behind the Game of Life program, and explains mathematical logic, growth and negative numbers. Stateside, he hangs out with a private detective in Oregon and meets the mathematician who looks for universes from his garage in Illinois.

Read this captivating book, and you won't realise that you're learning about complex concepts. Alex will get you hooked on maths as he delves deep into humankind's turbulent relationship with numbers, and proves just how much fun we can have with them.

The Code Book

The Science of Secrecy from Ancient Egypt to Quantum Cryptography

From the best-selling author of Fermat's Last Theorem, The Code Book is a history of man's urge to uncover the secrets of codes, from Egyptian puzzles to modern day computer encryptions.

As in Fermat's Last Theorem, Simon Singh brings life to an anstonishing story of puzzles, codes, languages and riddles that reveals man's continual pursuit to disguise and uncover, and to work out the secret languages of others.

Codes have influenced events throughout history, both in the stories of those who make them and those who break them. The betrayal of Mary Queen of Scots and the cracking of the enigma code that helped the Allies in World War II are major episodes in a continuing history of cryptography. In addition to stories of intrigue and warfare, Simon Singh also investigates other codes, the unravelling of genes and the rediscovery of ancient languages and most tantalisingly, the Beale ciphers, an unbroken code that could hold the key to a \$20 million treasure.

