



## Key Stage 3 Wider Reading Lists - Maths

### Fiction

- The Number Devil - Hans Magnus Enzensberger  
(Twelve-year-old Robert hates maths. Then in a dream, Robert meets the Number Devil, who brings the subject magically to life, illustrating with wit and charm a world in which numbers can fascinate and amaze.)
- Murderous Maths - Kjartan Poskitt  
(All the Murderous Maths books feature a range of characters including One-Finger Jimmy, Half Smile and their gang, Dolly Snowlips, Professor Fiendish, Pongo McWhiffy and the terribly lovely Veronica Gumfloss, the evil Gollarks from the planet Zog, Urgum the Axeman and so on. They also include sneaky tricks, games, jokes (most of which are repeatable) and what's more - you'll find yourself picking up all sorts of advice and tips on how to cope with maths in all its various forms. Accompanied by an excellent website.)

### Non Fiction

- Alex's Adventures in Numberland - Alex Bellos
- Alex Through the Looking Glass - Alex Bellos
- Futebol: The Brazilian Way of Life - Alex Bellos
- Football School: Epic Heroes - Alex Bellos
- 1081 and All That: A Journey into Mathematics - David Acheson
- The Number Devil - H M Enzensberger

### Websites

- <https://nrich.maths.org/secondary>  
This website has lots of excellent mathematical puzzles to help you gain further understanding in the practical application of the subject. Choose Level 3 problems.
- <https://www.mangahigh.com/en-gb/>  
Excellent games and plenty of learning. This is a good resource even just the free version.
- <https://www.khanacademy.org/>  
This is based in the USA and so needs a little care but there is everything here you can use to learn and play. This website will take you from adding numbers to solving partial differential equations.

YouTube Channels for watching:

- <https://www.youtube.com/user/numberphile/>  
Numberphile will teach you so much exciting stuff you'll never want to miss a mathematics lesson again. Learn how the sum of the natural numbers is -  $1/12$ .

- YouTube – Mathologer Curiosities from the world of mathematics. Listen, watch and learn.

## Key Stage 4 Wider reading List - Maths

### Fiction

- A Certain Ambiguity: A Mathematical Novel - Gaurav Suri / Hartosh Singh Bal
- Conned Again, Watson! Cautionary Tales of Logic, Math and Probability - Colin Bruce
- Crimes and Math Demeanors - Leith Hathout
- Gödel, Escher Bach: an eternal golden braid - Douglas Hofstadter

Website for more ideas - <http://kasmana.people.cofc.edu/MATHFICT/>

### Non Fiction

- How long is a piece of string? - Rob Eastaway and Jeremy Wyndham
- Why do Buses come in Threes? - Rob Eastaway and Jeremy Wyndham (Foundation KS4) Mathematics: The New Golden Age - Keith Devlin
- Fermat's Last Theorem - Simon Singh
- The Code Book - Simon Singh
- Zero: The Nothing that is - Robert Kaplan (Above and Beyond)
- The Music of the Primes - Marcus du Sautoy (Above and Beyond)
- Mathematics Minus Fear - Lawrence Potter

### Websites

- <https://nrich.maths.org/secondary>  
This website has lots of excellent mathematical puzzles to help you gain further understanding in the practical application of the subject. Choose Level 3 problems. <https://www.mangahigh.com/en-gb/>  
Excellent games and plenty of learning. This is a good resource even just the free version.
- <https://www.khanacademy.org/>  
This is based in the USA and so needs a little car but there is everything here you can use to learn and play. This website will take you from adding numbers to solving partial differential equations.
- <https://www.drfrostmaths.com/>  
This has revision and videos to help you get ready and practice

YouTube Channels for watching:

- <https://www.youtube.com/user/numberphile/>

Numberphile will teach you so much exciting stuff you'll never want to miss a mathematics lesson again. Learn how the sum of the natural numbers is  $-\frac{1}{12}$ .

- YouTube – Mathologer Curiosities from the world of mathematics. Listen, watch and learn.
- YouTube – Dr Frost Maths Plenty of revision and learning for you to complete.