Mathematics Reading list

Here is a list of books that we have enjoyed and recommend as extended reading for enjoyment.

We have copies of these in the library but I have also attached a link here as you may wish to purchase these yourselves.

For **Key stage 3** we really like the **murderous maths** books and we recommended below where they fit in alongside the work that will be covered in class.

If you have read any books that you have enjoyed and would like to recommend to others, please email and let us know so that we can add them to the list: nsmith@beechencliff.org.uk

Year 7

Unit	Topic	Book Recommendation
0	Induction	Awesome Arithmetricks
1	Sequences and functions, angles	Guaranteed to Bend your Brain
2	Unit, area, volume, percentages	Desperate Measures
3	Equations	
4	Present, interpret data	Do you feel lucky?
5	Probability	

Year 8

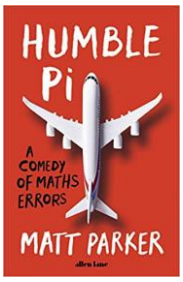
Unit	Topic	Book Recommendation
6	Expressions, equations, Pythagoras	Guaranteed to Mash Your Mind
7	Indices, transformations	
8	Ratio	Easy Questions and Easy Answers
9	Accurate Drawing, fractions	Savage Shapes
10	Probability, statistics	

Year 9

Unit	Topic	Book Recommendation
11	Number and ratio	The Key to the Universe
12	Geometry and measure	The Perfect Sausage and Other Fundamental Formulas
13	Algebra and functions	The Phantom X

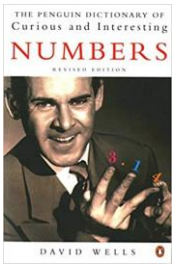
For KS4 we have recommended some books that don't fit in as easily to the scheme of work but are an excellent read to complement and extend ideas that you will see in class and perhaps beyond!

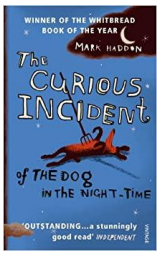
Year 10



Humble Pi by Matt Parker

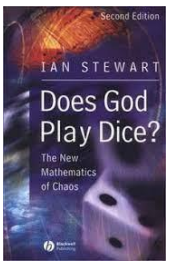
The Penguin Book of Interesting Numbers
by David Wells



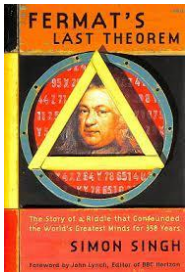


The Curious Incident of the Dog in the Night
by Mark Haddon

Does God Play Dice?
By Ian Stewart

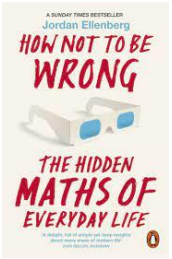


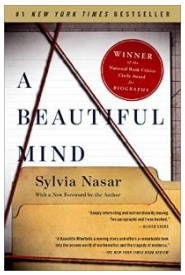
Year 11



Fermat's Last Theorem
By Simon Singh

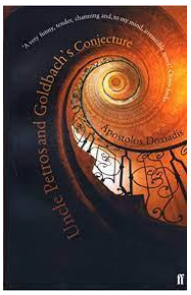
The Hidden Maths of everyday life
By Jordan Ellenberg





A Beautiful Mind
By Sylvia Nasar

Uncle Petros and Goldbach's Conjecture
By Apostolos Doxiadis



For the sixth form, this is a list of recommended books which may link to the curriculum but the ideas often go beyond:

Sixth form

Chaos

Does God Play Dice by Ian Stewart

Chaos by James Gleick

Cryptography

The Codebook by Simon Singh

The Mathematics of Ciphers by S.C. Coutinho

In Code by Sara Flannery

History of Mathematics

A History of Mathematics by Carl B. Boyer

Infinity: The Quest to Think the Unthinkable by Brian Clegg

E, the Story of a Number by Eli Maor

Biographies

The Man Who Loved Only Numbers by Paul Hoffman

My Brain is Open: The Mathematical Journeys of Paul Erdos by Bruce Schecter

The Man who knew Infinity by Robert Kanigel

Abel's Proof: An Essay on the Sources and Meaning of Mathematical Unsolvability by Peter Pesic

Mathematical Physics

A Brief History of Time by Stephen Hawking

The Elegant Universe by Brian Greene

The Fabric of the Cosmos by Brian Greene

Mathematical Philosophy

Introduction to Mathematical Philosophy by Bertrand Russell

A Mathematician's Apology by G. H. Hardy