PUTNEY
HIGH SCHOOL
GDST

KS4 and Sixth Form Mathematics Reading List

Below are some suggested books that you might consider reading, particularly if you are thinking about doing Maths or a Maths related subject at university. You will find that some of these books go across different subjects, this has been noted in italics and highlighted below. Other useful comments relevant to individual books have also been noted in the same way. If there is anything you do not understand when reading these books, make a note of it and ask your teacher who will be more than willing to help. Reading around the subject will benefit your understanding of the subject and help with writing your applications for university.

You should read the summaries/reviews of the books (which can be found online) to choose the books that will be of interest to you. There are a lot of books here, so be selective and choose the ones that will appeal to you (you will not have time to read them all).

The Numbers Game: Why Everything You Know About Football is Wrong by Chris Anderson and David Sally
This book might be interest to those of you interested in Football or studying PE

Mathletics by John D. Barrow

Alex's Adventures in Numberland by Alex Bellos

Alex Through the Looking Glass by Alex Bellos

How to Read Numbers by David Chivers and Tom Chivers

The Maths Gene by Keith Delvin

Music of the Primes by Marcus Du Sautoy

The Number Mysteries by Marcus Du Sautoy

Finding Moonshine by Marcus Du Sautoy

The Hidden Mathematics of Sport by Rob Eastaway
This book might be interest to those of you studying PE or interested in Sport

How Many Socks Make a Pair? by Rob Eastaway

Maths on the Back of an Envelope: Clever Ways to (roughly) Calculate Anything by Rob Eastaway

Why do Buses Come in Threes? By Rob Eastaway and Jeremy Wyndham

Much ado About Numbers by Rob Eastaway

How Long is a Piece of String by Rob Eastaway

The Indisputable Existence if Santa Claus by Hannah Fry and Oluron Evans
This book is about the Mathematics of Christmas – might be more suitable to read in December.

How Not to Be Wrong by Jordan Ellenberg

Chaos by James Gleick

I Think You'll Find It's a Bit More Complicated than That by Ben Goldacre

Bad Science by Ben Goldacre

Mathematics: A very short introduction by Tim Gowers

A Mathematician's Apology by G. H. Hardy

Once Upon a Prime: The Wonderous Connections Between Mathematics and Literature by Sarah Hart
This book might be of interest to those of you who have a love for English literature and Mathematics

Thinking Fast and Slow by Daniel Kahnemann

The Golden Ratio by Mario Livio

E: Story of a Number by Eli Maor

Things to Make and Do in the Fourth Dimension by Matt Parker

Humble Pi: A Comedy of Maths Errors by Matt Parker

Innumeracy by John Allen Paulos

Just Six Numbers by Martin Rees

The Signal and the Noise by Nate Silver

The Mathematical Secrets of the Simpsons by Simon Singh
A must read for anyone who is a fan of The Simpsons

Fermat's Last Theorem by Simon Singh

The Big Bang by Simon Singh

The Art of Statistics by David Spiegelhalter

The Art of Uncertainty: How to Navigate Chance, Ignorance, Risk and Luck by David Speigelhalter

COVID by Numbers: Making sense of the Pandemic Using Data by David Spiegelhalter and Anthony Masters

What's the Use? The Unreasonable Effectiveness of Mathematics by Ian Stewart

Professor Stewart's Casebook of Mathematical Mysteries by Ian Stewart

Professor Stewart's Cabinet of Mathematical Curiosities by Ian Stewart

Professor Stewart's Hoard of Mathematical Treasures by Ian Stewart
These three books contain puzzles and short articles about Mathematics. These are the type of book you dip into when you have five minutes spare and not necessarily the type that you read from front to back.

Taming the Infinite by Ian Stewart

Why Beauty is Truth: The History of Symmetry by Ian Stewart

Significant Figures: Lives and Works of Trailblazing Mathematicians by Ian Stewart
This might be of interest to those of you studying history.

Seventeen Equations that Changed the World by Ian Stewart

From Here to Infinity by Ian Stewart

Professor Stewart's Incredible Numbers by Ian Stewart

The Beauty of Numbers in Nature: Mathematical Patterns and Principles from the Natural World by Ian Stewart

Calculating the Cosmos: How Mathematics Unveils the Universe by Ian Stewart

The Joy of X by Steven Strogatz