

# Mathematics Recommended Reading

# and Websites

Parents and students will find the following websites helpful:

## Years 7-11

- <u>https://www.numeracyworkout.co.uk/</u>
- <u>https://www.mathsworkout.co.uk/</u>
- <u>https://www.khanacademy.org</u>

### **Useful Links**

- https://education.casio.co.uk/products/casio-cg50 Graphical calculator
- https://www.madasmaths.com/ Mad As Maths
- <u>National STEM Centre Secondary Mathematics</u> Brings together their latest mathematics blogs, resources and CPD in one place
- <u>Geogebra</u> Free dynamic mathematics software that joins geometry, algebra and calculus
- <u>NRICH: Mathematics enrichment club</u> A fantastic resource for all secondary maths students and teachers
- <u>Plus Magazine</u> Aims to introduce readers to the beauty and the practical applications of mathematics
- <u>Problem Pictures</u> Photographs with activities for mathematics teaching
- <u>RiSPs</u> Rich Starting Points for A Level Mathematics
- Mathsbank A variety of A level exam-style maths questions for teachers and students
- <u>Mathcentre</u> Useful maths resources for AS/A level maths students and staff
- <u>Maths Quiz</u> A site with a large range of Maths quizzes/tests.
- <u>Nick's Mathematical Puzzles</u> Over 100 excellent puzzles, many of them using A Level Maths
- <u>simpsonsmath.com</u> A look at the many occurrences of Math(sic) in the Simpsons
- STEM Resources STEM activities, projects and information for mathematics
- Waldomaths A variety of java applets for mathematics
- <u>Wikipedia Mathematics Portal</u> Thousands of articles about maths

#### **Recommended Mathematics Books**

- Further Risps (Jonny Griffiths)
- The Proving Ground (Jonny Griffiths)

- What the Numbers Say: A Field Guide to Mastering Our Numerical World (Derrick Niederman and David Boyum)
- Alex's Adventures in Numberland (Alex Bellos)
- Six Books of Euclid (Oliver Byrne & Werner Oechslin)
- What is Mathematics?: An Elementary Approach to Ideas and Methods (Oxford paperbacks)
- (Richard Courant, Herbert Robbins, Ian Stewart)
- The Mathematical Experience (Philip J. Davis & Reuben Hersh)
- The Tiger That Isn't: Seeing Through a World of Numbers (Andrew Dilnot and Michael Blastland)
- Logicomix: An Epic Search for Truth (Apostolos Doxiadis & Christos H. Papadimitriou)
- Euler : The Master of Us All (William Dunham)
- Why Do Buses Come in Threes?: The Hidden Mathematics of Everyday Life (Rob Eastaway & Jeremy Wyndham)
- Maths Challenge: Book 1 (Tony Gardiner)
- Mathematical Challenge (Tony Gardiner)
- Polyominoes: Puzzles, Patterns, Problems, and Packings (Princeton Science Library) (Solomon W. Golomb)
- The Cartoon Guide to Statistics (Larry Gonick & Woolcott Smith)
- Mathematics: A Very Short Introduction (Timothy Gowers)
- Godel, Escher, Bach: An Eternal Golden Braid (Douglas R Hofstadter)
- The Pleasures of Counting (T. W. Körner)
- A Concise Introduction to Pure Mathematics (Martin Liebeck)
- Thinking Mathematically (J.Mason, L.Burton, K.Stacey)
- Proofs without Words: Exercises in Visual Thinking: v. 1 (Classroom Resource Materials) (Roger B.Nelsen)
- Proofs without Words II: v. 2 (Classroom Resource Materials) (Roger B.Nelsen)
- The Housekeeper and the Professor (Yoko Ogawa)
- The Changing Shape of Geometry: Celebrating a Century of Geometry and Geometry Teaching (Chris Pritchard)
- Mathematics and Technology (Springer Undergraduate Texts in Mathematics and Technology) (Christiane Rousseau & Yvan St-Aubin)
- Finding Moonshine: A Mathematician's Journey Through Symmetry (Marcus Du Sautoy)
- Mathematician's Delight (Dover Science Books) (W.W. Sawyer)
- Fermat's Last Theorem: The story of a riddle that confounded the world's greatest minds for 358 years (Simon Singh)
- Backroom Boys: The Secret Return of the British Boffin (Francis Spufford)
- Professor Stewart's Cabinet of Mathematical Curiosities (Ian Stewart)
- The Foundations of Mathematics (Ian Stewart & David Tall)
- A Certain Ambiguity: A Mathematical Novel (Gauray Suri & Hartosh Singh Bal)
- Essential Mathematics for Games and Interactive Applications: A Programmer's Guide (James M. Van Verth & Lars M. Bishop)
- Mathematical Puzzles: A Connoisseur's Collection (Peter Winkler)