

St Edward's Academy

Curriculum Reading Lists

To help you to be successful in all curriculum areas, you should spend time exploring your subjects more widely. Reading around your subjects will help to increase your understanding and will be an interesting and rewarding activity. This additional reading is a supra-curricular activity and it enhances the curriculum. The supra-curriculum is also different to the extra-curricular activities that you take part in.

A supra-curricular activity is subject-specific academic exploration. It builds on and goes beyond what you are studying through the school curriculum. Supra-curricular activities are purely academic in focus and directly relevant to the subject being studied (as opposed to only being relevant through the transferable skills gained). A supra-curricular activity therefore refers to anything you do to explore your subject in greater depth in your own time.

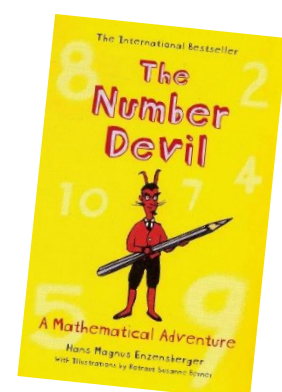
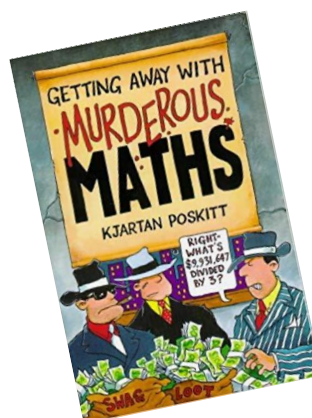
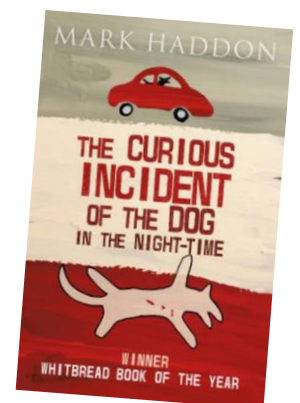
Academic enrichment should be an interesting and rewarding process for you. There is no set formula, nor any 'required reading': it is a chance for you to pick topics that fascinate you and to explore them in a variety of ways. There are also no exams or deadlines and you are free to develop your own lines of research. Do not feel pressured to read something that seems 'impressive', let your own interests guide you. Academic exploration is also a good chance for you to think about what you might like to study in the future.

The following reading lists are intended to challenge and interest you and deepen your understanding of the subject. Enjoy!

Mathematics

Key Stage 3

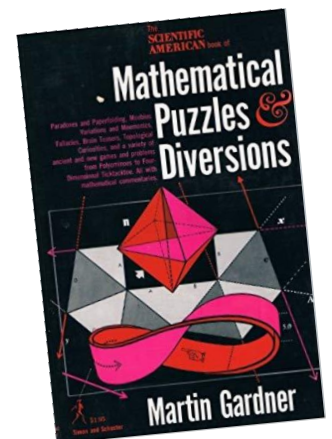
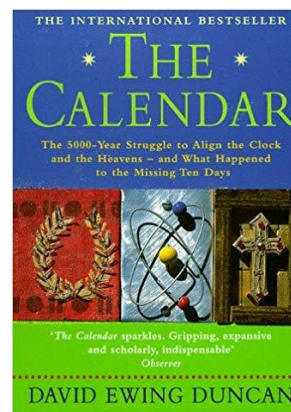
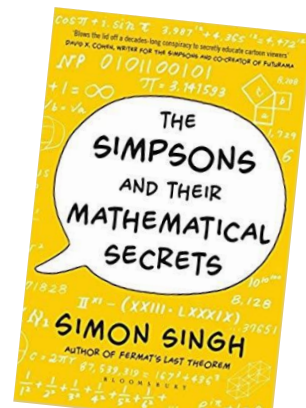
- Mark Haddon - The Curious Incident of the Dog in the Night-time
- Kjartan Poskitt - Murderous Maths
- Hans Magnus Enzensberger - The Number Devil
- Alex Bellos - Alex's Adventures in Numberland
- Marcus de Sautoy - The Number Mysteries
- Philip and Phylis Morrison - Powers of Ten
- Richard Evan Schwartz - You Can Count on Monsters
- Malba Tahan - The Man Who Counted: Collection of Mathematical Adventures



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Key Stage 4

- David Ewing Duncan - The Calendar
- John D Barrow - Pi in the Sky: Counting, Thinking and Being
- Stephen Dubner - Freakonomics
- John Allen Paulos - Innumeracy
- Martin Gardner - Mathematical Puzzles and Diversions
- Jean Lee Latham - Carry on, Mr. Bowditch
- Clifton Fadiman - Fantasia Mathematica: Being a Set of Stories, Together with a Group of Oddments and Diversions, All Drawn from the Universe of Mathematics
- EA Abbot - Flatland
- Guillermo Martinez - The Oxford Murders
- Deniz Guedj - The Parrot's Theorem
- Apostolos Doxiadis - Uncle Petros and Goldbach's Conjecture
- Dave O' Leary - The Music Book
- Simon Singh - The Simpsons and their Mathematical Secrets



Key Stage 5

- Simon Singh - Fermat's last theorem
- Acheson - 1089 and All That
- Stewart, I - Concepts of Modern Mathematics
- Tim Rice and Rob Eastaway - Why Do Buses Come in Threes?: The Hidden Mathematics of Everyday Life
- Peter Eccles - Introduction to Mathematical Reasoning
- Sandor Lehoczky and Richard Rusczyk - The Art of Problem Solving: The Basics Solutions Manual
- Allenby - Numbers and Proofs
- Bostock, Chandler, Rourke - Further Pure Mathematics
- Liebeck - A Concise Introduction to Pure Mathematics
- Brown - Philosophy of Mathematics
- Clegg - A Brief History of Infinity
- Courant, Robbins and Stewart - What is Mathematics?
- Devlin - The Millennium Problems
- Devlin - Mathematics: The New Golden Age
- Dunham - Journey through Genius
- Du Sautoy - The Music of the Primes
- Gardiner - The Colossal Book of Mathematics
- Gowers - Mathematics – A Very Short Introduction
- Gray - The Hilbert Challenge
- Hilton, Holton, Pedersen - Mathematical Reflections
- Körner - The Pleasures of Counting
- Olya - How to Solve It
- Sewell (ed.) - Mathematics Masterclasses: Stretching the Imagination
- Singh - The Code Book
- Paul Lockhart – Measurement

