

Year 11 into 12 Transition Task One

Subject	Maths & Further Maths
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This work is intended to support your ability to successfully make the transition to A Level study. You **do not** need to send this work to us.

1. **CGP Headstart to A-Level Maths**

You can buy this book for £10 or Amazon are currently doing the Kindle version for free. There is a diagnostic test for you to discover the weaknesses & revision pages for you to practice the skills.

2. **Start looking at A-Level Calculators**

At Manor we recommend the Casio fx-991EX classwiz which you can get from Amazon for about £30 (but as of 3/5/2020 they have a deal for this calculator for £18.95). There are extra functions which will help at A-level on this new calculator.

3. **Reading List:**

Alex's Adventures in Numberland – Alex Bellos

The world of maths can seem mind-boggling, irrelevant and, let's face it, boring. This groundbreaking book reclaims maths from the geeks. Mathematical ideas underpin just about everything in our lives: from the surprising geometry of the 50p piece to how probability can help you win in any casino. In search of weird and wonderful mathematical phenomena, Alex Bellos travels across the globe and meets the world's fastest mental calculators in Germany and a startlingly numerate chimpanzee in Japan. Packed with fascinating, eye-opening anecdotes, Alex's *Adventures in Numberland* is an exhilarating cocktail of history, reportage and mathematical proofs that will leave you awestruck.

The Simpsons and their Mathematical Secrets – Simon Singh

Some have seen philosophy embedded in episodes of *The Simpsons*; Simon Singh reveals how the writers have drip-fed morsels of number theory into the series over the last twenty-five years; indeed, there are so many mathematical references in *The Simpsons*, and in its sister program, *Futurama*, that they could form the basis of an entire university course. Using specific episodes as jumping off points - from 'Bart the Genius' to 'Treehouse of Horror VI' - Simon Singh brings to life the most intriguing and meaningful mathematical concepts, ranging from pi and the paradox of infinity to the origins of numbers and the most profound outstanding problems that haunt today's generation of mathematicians. In the process, he introduces us to *The Simpsons'* brilliant writing team - the likes of Ken Keeler, Al Jean, Jeff Westbrook, and Stewart Burns - who are not only comedy geniuses, but who also hold advanced degrees in mathematics. This eye-opening book will give anyone who reads it an entirely new mathematical insight into the most successful show in television history.

If you have any questions, please email maths@manor.school