



Read/Research	Watch/Listen	Revisit	Other Tasks
<p>“<b>Closing the Gap: The Quest to Understand Prime Numbers</b>” by Vicky Neale is a brilliant book giving a great insight into an important area of maths and what it is like to be a professional mathematician spending a lot of your time stuck on one question. Doctor Neale researches and teaches at the University of Oxford and some of you may have the opportunity to see her excellent lectures as part of the A Level maths course.</p> <p>“<b>Fermat’s Last Theorem</b>” by Simon Singh is a good book about one of the most famous problems in maths and how it was solved by Andrew Wiles (now a colleague of Vicky Neale).</p> <p>“<b>Professor Stewart’s Cabinet of Mathematical Curiosities</b>” is a good collection of puzzles and interesting problems. If you get through them all there is even a sequel!</p>	<p>Grant Sanderson has created some of the best maths videos, visualisations and lectures we have seen. His YouTube channel, “<b>3Blue1Brown</b>” is outstanding. His “<a href="#">Lockdown Math</a>” playlist covers some familiar and some new areas of maths (including ‘complex numbers’ which come up on the Further Maths course). These are still being produced and you can watch/participate live with new ones.</p> <p>Calculus is a really big part of the A Level course and the “<a href="#">Essence of Calculus</a>” playlist has some really nice videos introducing this topic. There are lots of other great videos on the channel which are well worth a look.</p> <p>For lighter, puzzle based ideas, the <b>Numberphile</b> channel on YouTube is excellent – professional mathematicians talking about some of their favourite bits of maths.</p>	<p>The CGP book “<b>Headstart to A Level Maths</b>” (£5.95 print or online versions available) covers all the key skills from GCSE that you will need for a smooth start to you’re A Level Maths studies. Working through this and revising any topics you struggle with is <b><u>strongly recommended</u></b>.</p>	<p>Test yourself with past and practice Level 2 Further Mathematics Papers which you can find on the AQA website.</p> <p>Use Dr Frost Maths to keep your skills up with the automated practice tests and videos.</p> <p>If you are interested in Fermat’s Last Theorem and the human stories behind its solution, the old Horizon documentary on Andrew Wiles and Fermat’s Last Theorem is worth watching – it is quite moving to see someone talking about the emotional highs and lows of their life’s work.</p>