Preparing for A-Level Mathematics &

Further Mathematics





What you will need checklist		To do checklist	
П	Lever arch folder	П	Use the links below to explore some enriching super-curricular mathematics
Σ	Folder dividers	Σ	Complete the induction- work which will be
П	A-Level Calculator 'Casio fx-991 CW'		handed out on results day
	This can be purchased on ParentPay from school in the new term. We advise not purchasing from online stores as we have seen fake models that do not work correctly.		This work, set by Pearson Edexcel, is intended to link GCSE and A-Level specifications. Please do your best on it and use the links to support you if you are unsure how to go about answering a question. This is to be brought to your <u>first</u> Mathematics lesson in Y12.

Wonder Explore Do

Universities now see super curricular as a compulsory element of the admissions process. Those actively extending their knowledge stand out amongst other applicants.

These resources will take you to reading or watching outside the curriculum. If you don't enjoy one area, try another and see what ignites your passion!

The 'Do' section has mathematical challenges to get your head around!

The University of Cambridge has also published information <u>here</u> about supercurricular for many subjects.

	TED talk: Was maths invented or discovered? (5 mins)			
Ŭ	BBC's Horizon: Fermat's last theorem, interview with Andrew Wiles (50 mins)			
	TED talk: How big is infinity? (7 mins)			
\geq	TED talk: Maths is the hidden secret to understanding the world (17 mins)			
>	TED talk: The mathematical secrets of Pascal's triangle (4 mins)			
$\overline{\mathbf{O}}$	<u>Pi, what's in a number?</u>			
ŏ	Game Theory			
Ū	Death by numberthe historical dangers of being a mathematician!			
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ОО	Prime Triangles			
	LCM Sudoku			
	Staircase sequences			