SUBJECT: Further Mathematics **EXAM BOARD:** AQA	*SAPERE AUDE*

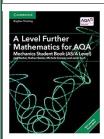|	
Course Overview (Y12)	**Pure Maths** Proof, Complex Numbers, Matrices, Further Algebra & Functions, Further Calculus, Further Vectors, Polar Coordinates, Hyperbolic Functions. *Mechanics* Dimensional Analysis, Momentum & Collisions, Work, Energy & Power, Circular Motion. *Discrete Maths* Graphs, Networks, Network Flows, Linear Programming, Critical Path Analysis, Game Theory, Binary Operations.
Useful websites	www.aqa.org.uk - specification, specimen papers. http://www.mathcentre.ac.uk/ - support materials, free of charge. There are a variety of resources - self study guides; test yourself diagnostics and exercises; video tutorials; and case studies. Resources are available on-line, and may be printed or downloaded. http://plus.maths.org/content/ - *Plus* is an internet magazine written by the Millenium Mathematics Project which aims to introduce readers to the beauty and the practical applications of mathematics. Sources for A Level revision when you get there: https://alevelmathsrevision.com/further-maths-video-tutorials/ https://www.physicsandmathstutor.com/a-level-maths/past-paper-questions-by-topic/
Essential text books and reading list	A-Level Further Mathematics for AQA Student Book 1 (AS/Year 1) Publisher: Cambridge University Press ISBN-13: 978-1316644430
	A-Level Further Mathematics for AQA Mechanics Student Book (AS/A Level) Publisher: Cambridge University Press ISBN-13: 978-1316644348
	All students will need the first book in September, and the second for the beginning of January. A graphics calculator (Casio CG-50) is not essential but is permitted by the exam board and students have found it to be useful in previous years.