SUBJECT: Mathematics EXAM BOARD: AQA	

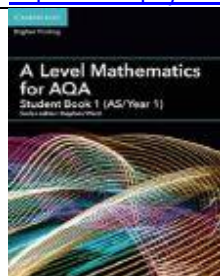| Course Overview (Y12)	**Pure Maths** Proof, Indices & Surds, Quadratic Functions, Polynomials, Using Graphs, Coordinate Geometry, Logarithms, Exponential Models, Binomial Expansion, Trigonometric Functions & Equations, Triangle Geometry, Differentiation, Applications of Differentiation, Integration. *Mechanics* Vectors, Introduction to Kinematics, Motion with Constant Acceleration, Forces & Motion, Objects in Contact. *Statistics* Working with Data, Probability, Statistical Hypothesis Testing.
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/a-level-maths-tutorial-videos-all/ ; https://www.mathsgenie.co.uk/newalevel.html ; https://www.physicsandmathstutor.com/a-level-maths/past-paper-questions-by-topic/ ;
Essential text books and reading list	A Level Mathematics for AQA Student Book 1 (AS/Year 1) **[All students must have this]** Authors: Stephen Ward, Paul Fannon Publisher: Cambridge University Press ISBN-13: 9781316644225 You will also require a Casio FX-991EX ClassWiz calculator or a graphics calculator.