

SUBJECT:
Further
Mathematics
EXAM BOARD:
AQA



Course
Overview (Y12)

Pure Maths

Proof, Complex Numbers, Matrices, Further Algebra & Functions, Further Calculus, Further Vectors, Polar Coordinates, Hyperbolic Functions.

+ TWO of the following:

Mechanics

Dimensional Analysis, Momentum & Collisions, Work, Energy & Power, Circular Motion.

Statistics

Discrete Random Variables & Expectation, Poisson Distribution, Type 1 and Type II Errors, Continuous Random Variables, Chi Tests for Association, Confidence Intervals,

Discrete Maths

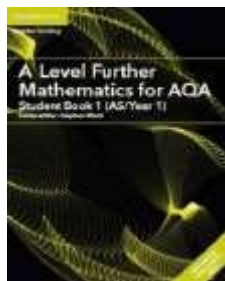
Graphs, Networks, Network Flows, Linear Programming, Critical Path Analysis, Game Theory, Binary Operations.

Useful
websites

http://www.furthermaths.org.uk/student_area/ - Further Maths Support Programme
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; iPod and 3G mobile phone downloads; 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.

Essential text
books and
reading list

A-Level Further Mathematics for AQA Student Book 1 (AS/Year 1)



Authors: Stephen Ward, Paul Fannon

Publisher: Cambridge University Press

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	A graphics calculator is also recommended.
Summer task	In addition to the Summer task for Mathematics, students should investigate what is meant by the square root of a negative number – where does this question lead you?