6th Mathematics

Course Level

AS/A Level

Awarding Body

Edexcel

Entry Requirements

Grade 6 in GCSE Mathematics

Assessment

AS
Paper 1 (Pure Mathematics - 2 hr)
Paper 2 (Statistics & Mechanics - 1 hr)
in June of Year 13

A level
Paper 1 (Pure Mathematics 1 - 2 hr)
Paper 2 (Pure Mathematics 2 - 2 hr)
Paper 3 (Statistics & Mechanics - 2 hr)
in Summer of Year 13

Course Description

Paper 1 of both the AS and A level course builds on GCSE knowledge of Indices and Surds, Algebraic Proof, Quadratic Equations, Simultaneous Equations, Inequalities, Functions, Transformations of Graphs, Equation of a Straight Line, Trigonometry and Vectors. The Equation of a Circle, the Binomial Expansion, Differentiation, Integration and Logarithms are introduced.

Paper 2 of the AS course covers Statistical Sampling, Presentation and Interpretation of Data, Probability Distributions, Hypotheses, Kinematics, Forces and Newton's Laws.

Paper 2 of the A level course takes the topics covered in the first paper and develops them further.

Paper 3 of the A level course covers the topics from Paper 2 of the AS course, but in greater depth.

Special Requirements
No coursework is necessary for A level Mathematics.

Career and Progression Opportunities
The objective of the course is to include a sufficient range of mathematical topics so that when you successfully complete the course you will have the necessary basis for progressing to further study in Economics, Geography, Mathematics, related subjects such as Physics or Engineering, Risk Analysis, Global Climate Modeller, Actuary, Biometrics Officer, working for the Aerospace industry or directly into employment.

Link to Syllabus
qualifications.pearson.com