

# Mathematics

## AS-LEVEL

EXAM BOARD Edexcel

### COURSE CONTENT

#### Component 1: Pure Mathematics

Proof, Algebra and functions, Co-ordinate geometry in the  $(x, y)$  plane, Sequences and series, Trigonometry, Exponentials and logarithms, Differentiation, Integration, Vectors.

#### Component 2: Statistics and Mechanics

##### Section A: Statistics

Statistical sampling, Data presentation and interpretation, Probability, Statistical distributions, Statistical hypothesis testing.

##### Section B: Mechanics

Quantities and units in mechanics, Kinematics, Forces and Newton's laws.



### ASSESSMENT

| Component                             | Assessment   | Duration          | Weighting |
|---------------------------------------|--------------|-------------------|-----------|
| Component 1: Pure Mathematics         | Written exam | 2 hours           | 62.5 %    |
| Component 2: Statistics and Mechanics | Written exam | 1 hour 15 minutes | 37.5 %    |

### CAREER OPPORTUNITIES

Employers look for hard-working, self-motivated, and intelligent people to join their staff. Obtaining a maths A-level shows that you have what it takes. You may not use algebra or probability in your job every day, but the transferable skills of analysis, logic, and problem solving will always come in handy.

