

## **A-LEVEL MATHEMATICS**

### ***Pearson Edexcel***

#### ***Specification Summary***

#### **Papers 1 & 2: Pure Mathematics**

- ***Topic 1 – Proof***
- ***Topic 2 – Algebra and functions***
- ***Topic 3 – Coordinate geometry in the  $(x, y)$  plane***
- ***Topic 4 – Sequences and series***
- ***Topic 5 – Trigonometry***
- ***Topic 6 – Exponentials and logarithms***
- ***Topic 7 – Differentiation***
- ***Topic 8 – Integration***
- ***Topic 9 – Numerical methods***
- ***Topic 10 – Vectors***

#### **Paper 3: Statistics and Mechanics**

##### ***Section A: Statistics***

- ***Topic 1 – Statistical sampling***
- ***Topic 2 – Data presentation and interpretation***
- ***Topic 3 – Probability***

- ***Topic 4 – Statistical distributions***
- ***Topic 5 – Statistical hypothesis testing***

### ***Section B: Mechanics***

- ***Topic 6 – Quantities and units in mechanics***
- ***Topic 7 – Kinematics***
- ***Topic 8 – Forces and Newton's laws***