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