

# MATHEMATICS

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**Exam board:** Pearson Edexcel

**Assessment Method:** 100% examination. Three externally examined papers

**Length of exams:** All papers are 2 hours.

**Breakdown of units:**

**Content overview** - Paper 1: Pure Mathematics 1      Paper 2: Pure Mathematics 2

- 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

**Assessment overview**

- Paper 1 and Paper 2 may contain questions on any topics from the Pure Mathematics content.
- Students must answer all questions.
- Calculators can be used in the assessment.

**Content overview - 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 9 – Forces and Newton's laws
  - Topic 9 – Moments

**Assessment overview**

- Paper 3 will contain questions on topics from the Statistics content in Section A and Mechanics content in Section B.
- Students must answer all questions.
- Calculators can be used in the assessment.

**Overlap with other subjects:** Having a firm grasp at maths will serve many subjects at A-level or degree level well: Physics, Chemistry, Biology, Economics, Accounting etc.

*Updated 15/6/18*



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