

MATHEMATICS

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

- 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 2: Pure Mathematics 2

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 19/6/20