

MATHEMATICS

KS5 (Edexcel A Level Mathematics)

YR12



Curriculum Purpose

Students study Pearson Edexcel Level 3 Advanced GCE in Mathematics (9MA0) and they have nine periods of Mathematics a fortnight. The qualification requires students to demonstrate skills and knowledge outlined in the following overarching themes: mathematical argument, language and proof, mathematical problem solving and mathematical modelling.

Curriculum Topics

PURE MATHS

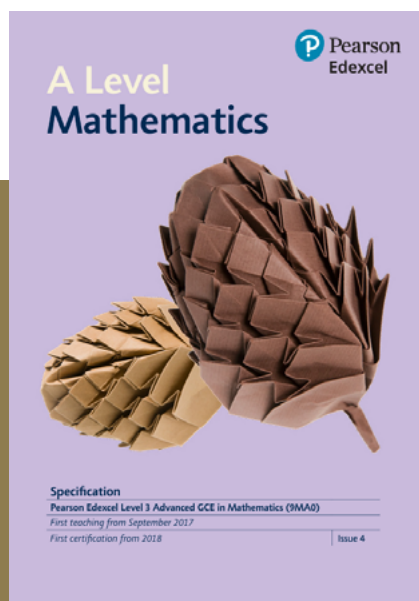
- Algebraic Expressions
- Quadratics
- Equations and Inequalities
- Graphs and Transformations
- Straight Line Graphs
- Circles
- Algebraic Methods
- The Binomial Expansion
- Trigonometric Ratios
- Trigonometric Identities and Equations
- Vectors
- Differentiation
- Integration
- Exponentials and Logarithms

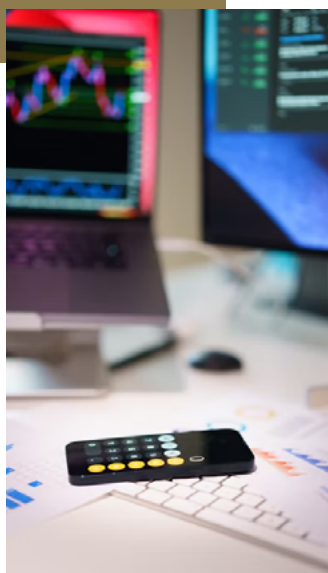
STATISTICS

- Data Collection
- Measures of Location and Spread
- Representations of Data
- Correlation
- Probability
- Statistical Distributions
- Hypothesis Testing

MECHANICS

- Modelling in Mechanics
- Constant Acceleration
- Forces and Motion
- Variable Acceleration





Specification link

<https://qualifications.pearson.com/content/dam/pdf/A%20Level/Mathematics/2017/specification-and-sample-assesment/a-level-13-mathematics-specification-issue4.pdf>

When and how assessment of learning will happen

End of unit assessments

The final exams/ assessment:

Mock examinations

Home Learning Expectations

At least five hours a week of independent learning

Useful Information

- Bespoke Google classroom
- <https://www.physicsandmathstutor.com/>

