

MATHS



Palma College

SIXTH FORM

AS

Pure 1

- Algebra and functions
- Coordinate geometry in the (x, y) plane
- Trigonometry
- Differentiation
- Integration

Pure 2

- Proof
- Algebra and functions
- Coordinate geometry in the (x, y) plane
- Sequences and series
- Exponentials and logarithms
- Trigonometry
- Differentiation
- Integration

Statistics 1

- Mathematical models in probability and statistics
- Representation and summary of data
- Probability
- Correlation and Regression
- Discrete random variables
- Discrete distributions
- The Normal distribution

A2

Pure 3

- Algebra and functions
- Trigonometry
- Exponentials and logarithms
- Differentiation
- Integration
- Numerical methods

Pure 4

- Proof
- Algebra and functions
- Coordinate geometry in the (x, y) plane
- Binomial expansion
- Differentiation
- Integration
- Vectors

Mechanics 1

- Mathematical models in mechanics
- Vectors in mechanics
- Kinematics of a particle moving in a straight line
- Dynamics of a particle moving in a straight line or plane
- Statics of a particle
- Moments

Assessment: Written examinations for all units. Will be externally assessed in June

Prerequisites: Good algebra level

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