

Year 12 Curriculum Overview

Autumn Half Term 1

- Algebraic expressions
- Quadratics
- Equations and inequalities
- Graph transformations
- Data collection
- Central tendency and spread
- Representing data
- Correlation

Autumn Half Term 2

ASSESSMENT 1 (All topics prior)

- Coordinate geometry (linear)
- Circle geometry
- Factor theorem
- Binomial expansion
- Probability
- Statistical distributions
- Hypothesis Testing

Spring Half Term 1

- Trig ratios
- Tri identities
- Differentiation
- Vectors
- Modelling in mechanics

Spring Half Term 2

- Differentiation
- Integration
- Constant acceleration
- Forces and motion

ASSESSMENT 2 (All topics prior except integration)

Summer Half Term 1

- Integration
- Exponential functions and logs
- Variable acceleration

Summer Half Term 2

- Revision for mocks

YEAR 12 MOCKS (Full AS course)

- Algebraic methods
- Functions and graphs

SUMMER INDEPENDENT LEARNING:

- Binomial expansion
- Radian measure

Disciplinary Literacy

Differentiation, Integration, Vector, Logarithm, Correlation, Distribution, Velocity, Displacement, Acceleration, Identity, Turning Point, Normal, Tangent

Year 13 Curriculum Overview

Autumn Half Term 1

- Sequences and series
- Revision of summer independent learning

ASSESSMENT 1 (UCAS)

- Reciprocal trig functions
- Trig and modelling
- Exponential correlation and hypothesis testing (PMCC)
- Conditional probability
- Normal distribution

Autumn Half Term 2

- Parametric equations
- Differentiation
- Moments
- Forces and friction

ASSESSMENT 2 (Pre-Mocks - UCAS)

- Projectiles

Spring Half Term 1

YEAR 13 MOCKS

- Integration
- Projectiles
- Application of forces

Spring Half Term 2

- Numeric methods
- Vectors
- Further kinematics

Summer Half Term 1

- Revision for final exams – topics will depend on needs of cohort and will differ from year to year.

Summer Half Term 2

- Revision for final exams – topics will depend on needs of cohort and will differ from year to year.

Disciplinary Literacy

Geometric and Arithmetic Sequence, Parametric, Moment, Friction, Hypothesis Test, Projectile,