

Year 12 Further Maths AS

Core Pure 1 topic list

Assessment 1 (50 mins) – Tuesday 27th April

- Matrices
- Linear Transformations
- Series
- Proof by induction
- Volumes of revolution

Assessment 2 (50 mins) – Tuesday 4th May

- Complex numbers
- Argand diagrams
- Vectors
- Roots of polynomials

Further Pure topic list (50 mins)– Tuesday 11th May

- Numerical methods – 1st and 2nd order differential equations
- Inequalities
- t-formulae
- Conic sections
- Area of a triangle, volume of a tetrahedron

Further Mechanics topic list (50 mins) – Tuesday 18th May

- Impulse and momentum
- Work, energy and power, including kinetic and potential energy and work-energy principle
- Elastic collisions in one dimension, including coefficient of restitution
- Successive impacts