KS5 Curriculum Journey

Further Maths

Next Steps

University

Skill for Life

Advanced problem-solving skills

Ability to deal with abstract concepts

Preparation for the exam

13

Regular assessment opportunities

12

A Level

Components

Differential Equations, Maclaurin Series, Further Polar, Calculus and Matrix theory

Game Theory, Critical Path analysis, Binary Operations

Centres of Mass, Moments and Couples, Circular Motion

Components

Complex Numbers, Matrices, Advanced series, Roots of polynomials, Polar Geometry, Conic sections, 3D Vectors, Hyperbolic functions, Proof by Induction

Graph Theory, Linear Programming, Network flows Work Energy and Power, Momentum and Collisions

Skills and Knowledge Building

Construct, understand and critique mathematical arguments
Understand and apply mathematical problem-solving cycle

Use, interpret and critique mathematical models in a variety of contexts

Career Ideas

Academic Maths / Science

Engineering

Computer Scientist

Actuary

Builds on

Maths and Physics

Grade Criteria

Grade 7 at GCSE Maths (Grade 8 preferred)
Level 2 Further Maths desirable

Independence Challenge Resilience Kind Supported Happy

STJOHN'S MARLBOROUGH