The Burgate School & Sixth Form

# Learning Journey

Mathematical skills studied are assessed in Learning Landmarks each half-term.

## Year 12

Algorithms | Graphs and networks | Algorithms on graphs | Vectors | Core one and two revision

Reducible differential equations / Route inspection / Conic sections one / Core one and two revision

Traveling salesperson / Numerical methods / Vectors / Inequalities / Series and complex numbers

The t formula / Linear programming / Simplex algorithm / Conic sections two

Taylor series / Methods in calculus / Critical path analyses / Revision

A Level Exams

## A Level Further Mathematics

**Students will develop a range of skills at all stages of the course including:**

- **Fluency in mathematical theory**
- **Problem solving**
- **Logical reasoning**
- **Analysis and presentation of data**
- **Application of knowledge**
- **Evaluation and drawing conclusions**

## Year 13

Polar Graphs / Methods in Differential Equations

Series two / Methods in calculus / Volumes of revolution two

Complex numbers two / Argand diagrams / Hyperbolic functions

Series / Volumes of revolution / Induction / Vectors

Matrix transformations and matrices and planes

Complex numbers / Roots of polynomials