In the final term, the mechanics topics are completed, and exam preparation begins.

The exams are completed in May, after which students start to study the second year material.

In the second term, students turn their attention to discrete mathematics - much of this work will be new to students.

Towards the end of the term, focus shifts again to mechanics.

In the first term, students focus on pure mathematics.

Some topics build on the work that has been covered in AS Mathematics, while others introduce brand new concepts.

**Term One**Matrices   
Complex Numbers  
Further Algebra and Functions  
Polar Coordinates  
Further Calculus  
Hyperbolic Functions  
Proof

Further Vectors

**Term Two**

Graphs

Networks

Network Flows

Critical Path Analysis

Linear Programming

Game Theory

Binary Operation

Momentum and Collisions

**Term Three**Dimensional Analysis  
Circular Motion  
Work, Energy and Power

Revision and Exam Preparation

Exams

After the exams, work for the A2 year is started.

**Subject: FURTHER MATHEMATICS Year Group: AS**

