

# Mathematics Year 11 Higher

**Curriculum Manager:** Mrs Anne Crowder

**Second in Faculty:** Mrs Alexandra Cooper

**Teaching Staff:** Gwen Moore; Clare Maguire; Caroline Rushton; Paul Stead; David Sowden; Joanne Watkins; Joanne Kenny; Lucy Pettigrew; Amanda Horton; Lauren Fitzpatrick; Sean Szekely.

## **Curriculum Overview Year 11:**

### **Topics Studied - Term 1**

#### **Half Term 1**

Circles  
Trial and Improvement and Algebraic Proof  
Compound Measures and Kinematics  
Proportion  
Collect and Display Data  
Histograms

#### **Half Term 2**

Similarity and Congruence  
Further Graphs  
Probability  
Collecting and Displaying Data  
Construction

### **Topics Studied - Term 2**

#### **Half Term 3**

Maps and Bearings  
Sequences  
Functions  
Transformations of Graphs  
2D and 3D Shapes

#### **Half Term 4**

Bounds  
Inequalities

### **Topics Studied - Term 3**

#### **Half Term 5**

Revision  
Past Paper and Exam practice

#### **Half Term 6**

Revision  
Past Paper and Exam practice

## **Assessments:**

Pupils will sit graded assessments at the end of every half term and are expected to revise for these assessments throughout the year.

Pupils will sit Mock Exams in Autumn and Spring, to help prepare them for the GCSE exam in the Summer.

## **Homework:**

An online or written exercise will be given weekly by class teachers.

## **Other Useful Information:**

### **Key Dates:**

Mock Exams – Autumn and Spring Term

### **Equipment**

Students will need a pen, pencil, ruler, compass and protractor for all Maths lessons. Pupils will also require a scientific calculator. Equipment can be purchased from Student Services.

### **Online Resources**

**www.mathswatchvle.com:** Mathswatch can be used to access tutorial videos and questions on all maths topics on the KS4 Maths syllabus.

**www.methodmaths.com:** This website can be used to work through exam papers, for both the new and old maths syllabus. Immediate feedback is given and more complex exam questions can be broken down into stages to help develop exam technique.

Each pupil has been given a unique username and password for these online resources which are recorded in their planner at the beginning of the academic year.

Pupils may also be set work specifically by their class teacher from these sites and will have a unique username and password to access this work.

**Moodle:** Moodle contains links to other useful websites and resources.

# Mathematics Year 11 Foundation

**Curriculum Manager:** Mrs Anne Crowder

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## **Curriculum Overview Year 11:**

### **Topics Studied - Term 1**

#### **Half Term 1**

Probability  
Sequences  
Fractions, Decimals and Percentages  
Real Life Graphs  
Inequalities

#### **Half Term 2**

Proportion  
Standard Form  
Simultaneous Equations  
Surface Area  
Volume  
Mock Exams

### **Topics Studied - Term 2**

#### **Half Term 3**

Trigonometry  
Time and Measure  
Reading Scales and Converting Units  
Maps and Bearings  
Similarity and Congruence

#### **Half Term 4**

Compound Measures  
Construction  
Trial and Improvement and Algebraic Reasoning  
Vectors  
Collecting Data

### **Topics Studied - Term 3**

#### **Half Term 5**

Revision  
Past Paper and Exam practice

#### **Half Term 6**

Revision  
Past Paper and Exam practice

## **Assessments:**

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Pupils will sit Mock Exams in Autumn and Spring, to help prepare them for the GCSE exam in the Summer.

## **Homework:**

An online or written exercise will be given weekly by class teachers.

## **Other Useful Information:**

### **Key Dates;**

Mock Exams – Autumn and Spring Term

### **Equipment**

Students will need a pen, pencil, ruler, compass and protractor for all Maths lessons. Pupils will also require a scientific calculator. Equipment can be purchased from Student Services.

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