

# Mathematics Year 10 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 10:**

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

#### **Half Term 1**

Negative Numbers  
Angles, Lines and Triangles  
Linear Graphs  
Set Notation  
Integers, Decimals and BODMAS  
Comparing numbers, Rounding and Estimation

#### **Half Term 2**

Simplifying and Substitution  
Expanding and Factorising  
Brackets  
Special Number and Index Laws  
Real Life Graphs  
Surds

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

#### **Half Term 3**

Solving Equations and  
Rearranging Formula  
Circle Theorems  
Fractions  
Standard Form

#### **Half Term 4**

Simultaneous Equations  
Averages  
Percentages  
Fractions, Decimals and  
Percentages  
Vectors

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

#### **Half Term 5**

Pythagoras  
Perimeter, Area and Volume  
Trigonometry  
Algebraic Fractions  
Ratio

#### **Half Term 6**

Further Trigonometry  
Transformations

## **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 towards the end of the year, to assess the progress they have made in preparation for the GCSE exam in Year 11.

## **Homework:**

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

## **Other Useful Information:**

### **Key Dates;**

Mock Exams - Summer

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

Each pupil has been given a unique username and password which is recorded in their planner at the beginning of the academic year.

**[www.mymaths.co.uk](http://www.mymaths.co.uk):** MyMaths can be used to access online lessons for all maths topics on the KS4 syllabus.

School username: aomhs

School Password: brown

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

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

# Mathematics Year 10 Foundation

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## **Curriculum Overview Year 10:**

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

#### **Half Term 1**

Coordinates  
Integers  
Negative Numbers  
Simplifying and substitution  
Pythagoras

#### **Half Term 2**

Angles, Lines and Triangles  
Linear Graphs  
Transformations  
Comparing numbers, Rounding and Estimation

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

#### **Half Term 3**

Decimals  
Expand and Factorise Brackets  
Fractions  
2D and 3D Shapes

#### **Half Term 4**

Solving Equations  
Percentages  
Area and Perimeter

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

#### **Half Term 5**

Circles  
Ratio  
Averages and Range  
Types of Number

#### **Half Term 6**

Displaying Data

### **Assessments:**

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

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### **Homework:**

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

### **Other Useful Information:**

#### **Key Dates:**

Mock Exams - Summer

#### **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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