

# Mathematics Year 10 Foundation

**Curriculum Manager:** Mrs Anne Crowder

**Second in Faculty:** Mrs Alexandra Cooper

**Teaching Staff:** Miss Maguire; Mrs Rushton; Mr Stead; Mr Sowden; Mrs Watkins; Mrs Kenny; Miss Pettigrew; Mrs Horton; Miss Fitzpatrick; Mr Szekely, Mrs Murray.

## Curriculum Overview Year 10:

### Topics Studied - Term 1

#### Half Term 1

- Negative Numbers
- Integers
- Comparing numbers, Rounding and Estimation
- Simplifying
- Coordinates
- Substitution
- Angles, Lines and Triangles

#### Half Term 2

- Decimals
- Types of Number
- Expand and Factorise Brackets
- Fractions
- Solving Equations

### Topics Studied - Term 2

#### Half Term 3

- Transformations
- Percentages
- Ratio
- Proportion

#### Half Term 4

- 2D and 3D shapes
- Linear Graphs
- Area and Perimeter
- Standard Form

### Topics Studied - Term 3

#### Half Term 5

- Circles
- Pythagoras
- Trigonometry

#### Half Term 6

- Sequences
- Averages and Range
- 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.

Pupils will sit Mock Examinations 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.

### Online Resources

**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:** 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.

# Mathematics Year 10 Higher

**Curriculum Manager:** Mrs Anne Crowder

**Second in Faculty:** Mrs Alexandra Cooper

**Teaching Staff:** Miss Maguire; Mrs Rushton; Mr Stead; Mr Sowden; Mrs Watkins; Mrs Kenny; Miss Pettigrew; Mrs Horton; Miss Fitzpatrick; Mr Szekely, Mrs Murray

## Topics Studied - Term 1

### Half Term 1

- Negative Numbers
- Integers, Decimals and BODMAS
- Comparing numbers, Rounding and Estimation
- Simplifying and Substitution
- Special Number and Index Laws
- Angles, Lines and Triangles
- Expanding and Factorising

### Half Term 2

- Solving Equations and Rearranging Formula
- Linear Graphs
- Surds
- Real Life Graphs
- Fractions

## Topics Studied - Term 2

### Half Term 3

- Simultaneous Equations
- Fractions, Decimals and Percentages
- Percentages
- Ratio

### Half Term 4

- Standard Form
- Pythagoras
- Trigonometry
- Perimeter, Area and Volume

## Topics Studied - Term 3

### Half Term 5

- Averages
- Sequences
- Compound Measures and Kinematics
- Algebraic Fractions

### Half Term 6

- Further Trigonometry
- Transformations
- Maps and Bearings

## 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 Examinations 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.

### Online Resources

**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:** MyMaths can be used to access online lessons for all maths topics on the KS4 syllabus.

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