

# Year 11 Mathematics 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 and Mrs Murray

## 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:

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 in the Autumn and Spring term, 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 Examinations – Autumn Term and Spring Term

**Equipment;** Pupils 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.

**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.

# Year 11 Mathematics Higher

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## 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 examinations in the Autumn and Spring term, 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 Examinations – Autumn and Spring Term

**Equipment;** Pupils will need a pen, pencil, ruler, compass and protractor for all Maths lessons. Pupils will also require a scientific calculator.

### Online Resources

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