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Course Tier Information (where appropriate):

Higher tier: Grades 9 to 4    Foundation tier: Grades 5 to 1

**GCSE MATHEMATICS**

**Course Assessment:**

Maths GCSE is assessed with a two paper examination.

Paper 1		Papers 2 and 3	
Higher Non-Calculator	1h 30m	Higher Calculator	1h 30m
Foundation Non-Calculator	1h 30m	Foundation Calculator	1h 30m

Students will follow a pathway through Mathematics that will offer them the best chance to attain a 5 or above on which ever paper suits their individual needs. If a student is at risk of not attaining a 5 on the Higher Tier paper they will be very likely to be entered for the Foundation Tier. This decision is made by January Year 11, after the majority of the course has been delivered, and after the winter mock exams.

As well as the final formal assessment at the end of the course, we also have half-termly module assessments throughout Year 10, an end of year assessment in summer, and a school mock in Year 11.

Year 10 started GCSE just after Easter in Year 9 and have already completed their first assessment. After assessment they are given an analysis sheets with some topics that might need more revision,

There is some fine tuning to sets during Year 10 but only if absolutely necessary, and some movement in September of Year 11. After that we aim not to move students if at all possible.

**COURSE READING & SET TEXTS:**

**Unfortunately there is not one perfect textbook for Mathematics!**

**Higher:** Higher GCSE Mathematics—David Rayner. Publisher: OUP ISBN 978-0-19-835571-7

**Foundation:** Foundation GCSE Mathematics—David Rayner. Publisher: OUP ISBN 978-0-19-835570-0

There are also textbooks from Pearsons and Collins that are just as suitable.

Use of the MathsWatch is advised from the start of the course, and is easily accessible for free at [www.mathswatchvle.com](http://www.mathswatchvle.com) (Centre ID is highgatewood, followed by students' school login details with @hws after the username).

The free fantastic site [www.mathsgenie.co.uk](http://www.mathsgenie.co.uk) is recommended for videos, worksheets and modelled answers.

**Specialist equipment required:**

Scientific Calculator, protractor and a pair of compasses

The course content for Maths GCSE has increased by 40% with new topics appearing on both Higher and Foundation papers.

There is a bigger emphasis on students knowing what Maths to apply at the right time, as well as being able to show an understanding of why they are applying a given method.

Students will need to be able to use traditional methods for numerical calculations, and recall a greater body of mathematical formulae.

Fluency with tables and numerical methods are absolutely essential and weekly practice really benefits all students.

[www.corbettmaths.com](http://www.corbettmaths.com) do a great 5-a-day set of questions and answers at different levels

### Homework:

Students will be set home work every week. Staff will put a copy on Show MyHomework. Occasionally it will be a MyMaths homework or revision.

Students should use MathsWatch/SamLearning as well as past papers as a regular means of practice and revision. Many staff are available at lunch-time and after school, and we are happy for students to come in for homework help at 1.20 pm and 3.15pm. There is also a homework help in P10a some days after school.

### ANY OTHER INFORMATION:

#### Resources:

\*Get some record cards for making revision cards \*If you don't like revising from the internet—buy a revision guide book (Foyles; Tottenham Court Road or Waterstones ;Gower Street have good selections for you to see and compare).

#### Useful Website Addresses:

[www.mymaths.co.uk](http://www.mymaths.co.uk) – Login: highgate; Password: halo4 and then students' personal login—which their teacher will give them.

[www.mathsgenie.co.uk](http://www.mathsgenie.co.uk) and [www.corbettmaths.com](http://www.corbettmaths.com) are absolutely essential for revising and preparation for exams as well as useful for homework support during the whole of GCSE.

[www.bbc.co.uk/learning/subjects/maths.shtml](http://www.bbc.co.uk/learning/subjects/maths.shtml) - which will take you to several BBC maths sites

[www.aqa.org.uk](http://www.aqa.org.uk) – This site has lots of past papers and marks schemes, and is excellent for basic Maths practice

## COURSE OVERVIEW — MATHEMATICS

We consider GCSE to be a five year course—but with greater exam focus from Year 9

MAY 2019 - May 2020 Topics to be studied during the first year of the course.

### YEAR 10

#### Term 1

#### HALF- TERM 1

Fractions Decimals and Percentages  
Number (Negatives, Rounding, Estimating, Types, Operations Accuracy and bounds )  
Ratio

#### FDP Assessment

#### HALF- TERM 2

Proportion and Compound Measures  
Index Laws Roots and SURDS  
PFEQ

#### Ratio and Proportion Assessment

#### Term 2

#### HALF- TERM 1

Algebra (Making, simplifying, expanding and factorising.)  
Substitution. BIDMAS in algebra.

#### Algebra 1 Assessment

#### HALF- TERM 2

Sequences (linear and quadratic)  
Equations and Graphs

#### Algebra 2 Assessment

#### Term 3

#### HALF- TERM 1

Statistics  
Probability  
Property of Shapes and Transformations

#### Handling Data Assessment

#### HALF- TERM 2

Perimeter Area and Volume  
Angle Reasoning

#### Shape Assessment Year 10 Mock Exam

# COURSE OVERVIEW — MATHEMATICS

YEAR 11

SEPT 2020– May 2021 *Topics to be studied during the final year of the course.*

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## Term 1

### HALF- TERM 1

Number  
Fractions  
Ratio  
Percentages  
Index Laws

### FDP Assessment

### HALF- TERM 2

Pythaogras  
Trigonometry  
Sectors Segments  
Vectors

### November Mock

## Term 2

### HALF- TERM 1

Equations  
Sequences  
Graphing and Co-ordinate  
Geometry

### March Mock—final chance to spot problem areas

### HALF- TERM 2

**Mainly past papers and some:**  
Shape and Space  
Area Perimeter and Volume  
Transformations  
Angle Rules  
Handling Data

All groups should have individualised plans for revision based on the exam analysis.

*Year 11 students should be regularly attending either a lunch-time or after school slot with their teacher or MPA – this time is for bringing in exam questions that are not understood/homework issues/completing class work.*



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“Mathematics does to the mind what music does to the soul and poetry to the heart”