



# MATHEMATICS FOUNDATION TIER KEY STAGE 4 2022-2025

## YEARS 9, 10 AND 11

### COURSE : EDEXCEL GCSE 1MA1 9 TO 1 (FOR YEARS 9,10,11)

GCSE Mathematics 9to1 is taught to all students over three years. There are two tiers of entry at GCSE, Foundation and Higher, and students are entered for each tier depending on their level of ability and target grades.

In each of years 9,10 and 11, students study a range of techniques from Number, Algebra, Geometry, Measures, Probability and Statistics. These build on each other over the course of the years as our students' progress.

The final assessment of the course involves three examined papers, two with the use of a calculator and one without.

### COURSEWORK DEADLINES/EXAMS

### WHEN

Y9 : INTERNAL TESTS AT THE END OF EACH HALF TERM.	
Y9 : INTERNAL EXAMINATION	SUMMER TERM
Y10 : INTERNAL TESTS AT THE END OF EACH HALF TERM.	
Y10 : INTERNAL EXAMINATION	SPRING TERM
Y11 : INTERNAL TESTS AT THE END OF FIRST HALF TERM.	AUTUMN TERM
Y11 : INTERNAL MOCK GCSE EXAMINATION	DECEMBER
Y11 : EXTERNAL FINAL GCSE EXAMINATION	SUMMER TERM
THERE IS NO COURSEWORK FOR GCSE MATHEMATICS	

### PROJECTS/SCHEME OF WORK/TOPICS

### DURING

SEE SECOND PAGE.


### OTHER INFORMATION

Useful websites

[www.mymaths.co.uk](http://www.mymaths.co.uk)

[www.bbc.co.uk/bitesize/gcse/maths](http://www.bbc.co.uk/bitesize/gcse/maths)

[www.mathsgenie.co.uk](http://www.mathsgenie.co.uk)

[www.corbettmaths.com](http://www.corbettmaths.com)

[www.examsolutions.net/maths-revision/GCSE-index.php](http://www.examsolutions.net/maths-revision/GCSE-index.php)

[www.schoolworkout.co.uk/GCSE.htm](http://www.schoolworkout.co.uk/GCSE.htm)

<http://www.mathsmadeeasy.co.uk/gcse-maths-revision.htm>

Equipment

It is imperative that students have a calculator with them for their mathematics lessons as they will need to get used to the way their own individual calculator works before they sit the examinations. There are many calculators available and they can work in different ways so it is vital that our students get to know a particular calculator. We recommend Casio FX83GT or Casio FX991ES ( if students would like a calculator for GCSE and A Level ).

Students should also have a geometry set.

Exam board : Edexcel

Course code : 1Ma1



# MATHEMATICS FOUNDATION TIER KEY STAGE 4 YEARS 9, 10 AND 11

# 2022-2025

PROJECTS/SCHEME OF WORK/TOPICS	DURING
<b>YEAR 9</b>	
INTEGERS AND PLACE VALUE; DECIMALS; INDICES, POWERS AND ROOTS; FACTORS, MULTIPLES AND PRIMES.	AUTUMN TERM 1
BASICS OF ALGEBRA; EXPANDING AND FACTORISING SINGLE BRACKETS; EXPRESSIONS AND SUBSTITUTION INTO FORMULAE; TABLES.	AUTUMN TERM 2
CHARTS AND GRAPHS; PIE CHARTS; SCATTER GRAPHS	SPRING TERM 1
EXAM REVISION AND EXAM (TBC); FRACTIONS; FRACTIONS, DECIMALS AND PERCENTAGES.	SPRING TERM 2
PERCENTAGES; EQUATIONS; INEQUALITIES.	SUMMER TERM 1
SEQUENCES; PROPERTIES OF SHAPES, PARALLEL LINES AND ANGLE FACTS; INTERIOR AND EXTERIOR ANGLES OF POLYGONS.	SUMMER TERM 2
<b>YEAR 10</b>	
STATISTICS AND SAMPLING; THE AVERAGES; PERIMETER AND AREA; 3D FORMS AND VOLUME.	AUTUMN TERM 1
REAL LIFE GRAPHS; STRAIGHT LINE GRAPHS; TRANSFORMATIONS	AUTUMN TERM 2
RATIO; PROPORTION; PYTHAGORAS AND TRIGONOMETRY.	SPRING TERM 1
PROBABILITY I; PROBABILITY II; MULTIPLICATIVE REASONING.	SPRING TERM 2

PROJECTS/SCHEME OF WORK/TOPICS	DURING
<b>YEAR 10 continued</b>	
PLANS AND ELEVATIONS; CONSTRUCTIONS, LOCI AND BEARINGS; QUADRATICS EQUATIONS; QUADRATIC GRAPHS.	SUMMER TERM 1
EXAM REVISION (TBC); YEAR 10 EXAM (TBC)	SUMMER TERM 2
<b>YEAR 11</b>	
CIRCLES, CYLINDERS, CONES AND SPHERES; FRACTIONS AND RECIPROCAL; INDICES AND STANDARD FORM.	AUTUMN TERM 1
SIMILARITY AND CONGRUENCE IN 2D; VECTORS; REARRANGING EQUATIONS; GRAPHS OF CUBIC AND RECIPROCAL FUNCTIONS AND SIMULTANEOUS EQUATIONS. YEAR 11 MOCKS	AUTUMN TERM 2
MOCK FOLLOW UP; EXAM PREPARATION	SPRING TERM 1
EXAM PREPARATION	SPRING TERM 2
EXAM PREPARATION	SUMMER TERM 1
FINAL EXAM	SUMMER TERM 1/2