



MATHEMATICS HIGHER TIER KEY STAGE 4 YEARS 9,10 AND 11

2024-2027

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

www.bbc.co.uk/bitesize/gcse/maths

www.mathsgenie.co.uk

www.corbettmaths.com

www.examsolutions.net/maths-revision/GCSE-index.php

www.schoolworkout.co.uk/GCSE.htm

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



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YEARS 9,10 AND 11

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PROJECTS/SCHEME OF WORK/TOPICS	DURING
<u>YEAR 9</u>	
CALCULATIONS, CHECKING AND ROUNDING; INDICES, ROOTS, RECIPROCAL AND HIERARCHY OF OPERATIONS; FACTORS MULTIPLES AND PRIMES; STANDARD FORM AND SURDS.	AUTUMN TERM 1
BASICS OF ALGEBRA; SETTING UP, REARRANGING AND SOLVING EQUATIONS; SEQUENCES	AUTUMN TERM 2
AVERAGES AND RANGE; REPRESENTING AND INTERPRETING DATA; SCATTER GRAPHS; EXAM REVISION (TBC).	SPRING TERM 1
YEAR 9 EXAMS (TBC); FRACTIONS; PERCENTAGES.	SPRING TERM 2
RATIO AND PROPORTION; POLYGONS, ANGLES AND PARALLEL LINES; PYTHAGORAS THEOREM AND TRIGONOMETRY.	SUMMER TERM 1
BASICS OF GRAPHS AND REAL LIFE GRAPHS; LINEAR EQUATIONS AND COORDINATE GEOMETRY; QUADRATICS, CUBIC AND OTHER GRAPHS.	SUMMER TERM 2
<u>YEAR 10</u>	
PERIMETER, AREA AND CIRCLES; 3D FORMS AND VOLUME, CYLINDERS, CONES AND SPHERES; ACCURACY AND BOUNDS.	AUTUMN TERM 1
TRANSFORMATIONS; CONSTRUCTIONS, LOCI AND BEARINGS; SOLVING QUADRATICS AND SIMULTANEOUS EQUATIONS; INEQUALITIES.	AUTUMN TERM 2
PROBABILITY; MULTIPLICATIVE REASONING; SIMILARITY AND CONGRUENCE IN 2D AND 3D.	SPRING TERM 1
GRAPHS OF TRIGONOMETRIC FUNCTIONS; FURTHER TRIGONOMETRY; COLLECTING DATA.	SPRING TERM 2

PROJECTS/SCHEME OF WORK/TOPICS	DURING
<u>YEAR 10 continued</u>	
CIRCLE THEOREMS; EXAM REVISION.	SUMMER TERM 1
YEAR 10 EXAM (TBC); CIRCLE GEOMETRY	SUMMER TERM 2
<u>YEAR 11</u>	
CIRCLE THEOREMS REVIEW; CHANGING THE SUBJECT OF FORMULAE; ALGEBRAIC FRACTIONS; SURDS; PROOF.	AUTUMN TERM 1
VECTORS AND GEOMETRIC PROOF; RECIPROCAL AND EXPONENTIAL GRAPHS; GRADIENT AND AREA UNDER GRAPHS; DIRECT AND INVERSE PROPORTION.	AUTUMN TERM 2
REVISION AND EXAM PREPARATION	SPRING TERM 1
REVISION AND EXAM PREPARATION	SPRING TERM 2
FINAL EXAM	SUMMER TERM 1/2