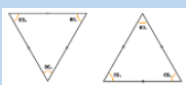




# MATHS

FINAL GCSE EXAMS



$x^0$

$2.5 \times 10^{-6}$

Extension, Revision and exam practice

Geometry

Similarity

Number and Algebra skills

YEAR 11



Theoretical and experimental  
Recording outcomes  
Tree diagrams  
Venn diagrams

$3(x+5)$

Solving more complex equations and inequalities  
Changing the subject of a formula



Types of sequence  
Gradient  
Graphs and equations

Transformations

Rotations  
Reflections

Statistics

Scattergraphs  
Applying averages

Probability and sets

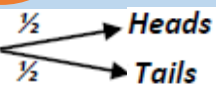
Equations, Inequalities and formulae

Geometry skills  
Properties of 2D and 3D shapes  
Position and direction

Statistics: Data handling  
Collecting, Representing and Interpreting data

Properties of number:  
Place value and ordering  
Rounding  
Using multiples

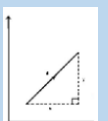
The four operations:  
Non-calculator methods  
Estimating



Geometry skills  
Properties of 2D and 3D shapes  
Position and direction

Core curriculum topics for students working towards GCSE

Students working towards the Entry Level Certificate begin the course in Year 9



KS4

YEAR 10

The four operations:  
Non-calculator methods  
Estimating

Using number

Properties of number:  
Place value and ordering  
Rounding  
Using multiples

Geometry in 2 and 3 dimensions

Statistics: Data handling  
Collecting, Representing and Interpreting data

Algebra skills

Geometry skills  
Properties of 2D and 3D shapes  
Position and direction

Powers, roots and primes  
Using fractions, decimals and percentages

Shape names and properties  
Area  
Surface area and Volume

Expressions and equations:  
Substitution  
Solving  
Rearranging



$2x + 3y$

Algebra Skills

Expressions and equations  
Reading and writing instructions using algebra

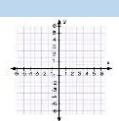
Number skills

Fractions, decimals and percentages  
Measurement and units

YEAR 9

Position and direction

Transformations:  
Translations and vectors  
Rotations, angles and bearings  
Pythagoras' Theorem



Coordinates, Lines and equations  
Scattergraphs

Representations

Proportion

Methods and Strategies

Ratio  
Multiplicative change  
Using fractions

$£:€$

Exploring alternative methods of calculation  
Diagrams to 'see' the maths



$+ -$

Lines and Angles

YEAR 8

Directed number and Fractions

Operations and equations with negative numbers  
Adding and subtracting fractions

Constructing, measuring and using geometric notation  
Developing geometric reasoning

1	2	3	4	5	6	7
2	4	6	8	10	12	14
3	6	9	12	15	18	21
4	8	12	16	20	24	28

$4 \times 2$

$+ -$

Solving problems using the four operations

Applying number skills

Place value and ordering of integers and decimals  
Fraction, decimal and percentage equivalence

Place value and Proportion

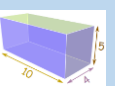
Sequences  
Understand and use algebraic notation  
Equality and equivalence

Thinking with algebra

Types of number  
Products, factors, multiples and primes  
Numbers within shapes

Visualising numbers

Learning towards the GCSE qualification begins in Year 7, allowing students to become familiar with examination language and requirements over a 5 year period



Convert units  
Area, perimeter and volume

Algebra and ratio

Formulae, sequences and equations  
Scale factors and unequal sharing

Statistics and geometry

The mean, pie charts and line graphs  
Shapes and angles

Revision, assessment, investigations

YEAR 7

KS3

Decimals, percentages, measurement

Calculate with fractions  
Fractions, decimals and percentages  
Coordinates, reflection and translation

Fractions, Position and direction

Positive and negative numbers  
Using the 4 operations  
Factors, multiples, primes and powers

Place value and calculating

YEAR 6

XI

Roman numerals

Geometry



Properties of shapes  
Position and movement

Measurement



Measurements  
Area and perimeter  
Volume

Number and place value



Fractions  
Decimals

Fractions, decimals and percentages

Graphs

Statistics

Number, place value and calculations

YEAR 5

KS2

$+ -$

Numbers to 1000  
Addition and subtraction  
Multiplication and division  
Word problems

$\times \div$

