Mathematics





GCSE Mathematics Exam

Revision
Statistics &
Probability

Revision Geometry Revision Algebra

Congruence & Similarity Rounding estimating & Bounds Year **11**

Simultaneous & Quadratic equations Iterations Functions
Transform
ations of
graphs
Proof

Revision Number and ratio



Circle
Theorems
Trigonom
etry 2
Vectors

Graphs 2
Ratio
Direct &
Inverse
proportion
Scale
drawing

Travel graphs
Constructi on & Loci Probability
Quadratic equations

Linear
Inequalities
& equations
Surds
Indices
Graphs
Inequalities

Algebra 1
Factorising
quadratics
Volume &
Surface
Area

Year 1 0



Algebra 1
Indices
Area &
perimeter
Representing
data

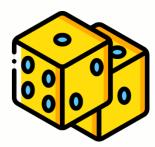
Measures
Equations
Inequalities
Ratio 1
Percentages

Averages & ranges
Transforma tions
Graphs 1

Charts,

Trigonometry
Standard
form
Simultaneous
equations

Cumulative Frequency Histograms Proportion Scatter Graph





Sequences
Decimals &
Fractions
Angles

Year

Transformati ons Construction & Loci Linear graphs, Pythagoras's theorem Proportion Averages
Area,
perimeter &
volume
Compound
measures

Equations
Percentages
Ratio
Rounding &
estimating

Factorising & Expanding Fractions & decimals Probability

2 2 2 2 2 2 2

2 2 2 2

Charts & diagrams 3d shapes Rounding & Estimation

Fractions2 Venn diagram Probability Ratio 2 Averages
Transforma
tion 2
Constructio
ns

0

Year

Numeracy Sequences Angles Roots & Indices

OUR LEARNING JOURNEY

Sequences
Area &
perimeter
Graphs
Transform
ations

Solving equations, Angles

Factors, Multiples & Primes, sequences Proportion Year 7

Mathematics KS4: Year 9



Scatter Graphs

- Draw and interpret
- Lines of Best Fit
- Estimate from graph

Ratio and Proportion

- Express as a fraction
- ratio problems with fractions

Revise Averages

- Mode, median, range
- Mean from a list or table
- Averages from grouped data

Cumulative Frequency

- Drawing CF Curves
- Boxplots
- Histograms

Revise - Ratio 1

- Use ratio notation
- Simplify ratios
- Ratios as fractions

3:1

SUMMER

3:2

Revise -Charts and Diagrams

- Bar Charts
- Pie Charts
- Interpret diagrams
- Two way tables

Equations and Inequalities

- Solve 1 and 2 step equations
- Form equations

SPRING

2:2

Revise - Algebraic Manipulation **SUMMER**

- Collect like terms
- Expand and factorise
- Expand double ad triple brackets

Standard From

- Change from ordinary numbers to st form and vice versa
- St Form Calculations



Transformations

- Enlargement
- Reflection
- Translation
- Rotation

Graphs Coordinates

- Plotting linear graphs
- Gradient and Intercept

Ratio 1

Simplify

Ratios as

fractions

ratios

Pythagoras Theorem

- **Applying Pythagoras**
- Applying Pythagoras in real life
- Distance between two points on a grid



Averages

- Mode, median, range
- Mean from a list or table
- Averages from grouped

Percentages

- Percentage
- of an amount Increase by a
- percentage Amounts as a
- percentage

Use ratio **SPRING** notation

2:1

Equations and Inequalities

- Solve 1 and 2 step equations
- Form equations
- Speed
- Density Pressure

Graphs

Compound

Measures

Distance Time

Charts and Diagrams

Bar Charts

- Pie Charts
- Interpret diagrams
- Two way tables

AUTUMN 1:2





Algebraic Manipulation

- Collect like terms
- Expand and factorise
- Expand double ad
- triple brackets

AUTUMN

1:1

Angles & Shapes

- Angle rules for points, lines triangles
- Angles in parallel lines
- Polygon angles
- **Bearings**

Number 1

- **BIDMAS**
- Product of prime factors
- HCF, LCM Indices
- **Rules of Indices**

Triangles, Trapezia, Parallelogram

- Circles
- Circumference

Area and Perimeter

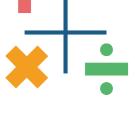
Decimals & Fractions

- Equivalent fractions
- Four operations
- Mixed numbers and **Improper Fractions**
- Change decimals to fractions

Sequences

- Term to term rule
- Generate a sequence
- Find the nth term
- Fibonacci sequences Geometric and **Quadratic Sequences**

2





OUR LEARNING JOURNEY