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

10



Algebra 1
Indices
Area &
perimeter
Representing
data

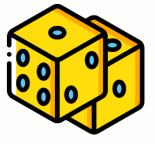
Measures Equations Inequalities Ratio 1 Percentages

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

Sequ Are

Charts &

diagrams

3d shapes

Rounding &

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

Year

Numeracy Sequences Angles Roots & Indices

OUR LEARNING JOURNEY

Sequences
Area &
perimeter
Graphs
Transform
ations

Solving equations, Angles

Factors, Multiples & Primes, sequences Proportion

7

Year

Mathematics KS4: Year 9



Scatter Graphs

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



- **Drawing CF Curves**
- **Boxplots**
- Histograms

Loci and Construction

- Angle bisectors
- Perpendicular
 - bisectors
- Simple Loci
- Map Scales



Standard Form

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

Ratio and Proportion

- Express as a fraction
- ratio problems with fractions

SUMMER

3:2

Pythagoras Theorem and Trigonometry

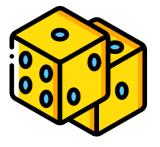
- **Applying Pythagoras**
- Applying Pythagoras in real life
- Distance between two points on a grid
- Higher groups cover basic Trigonometry

SUMMER

3:1

Graphs

- Coordinates Plotting linear graphs
- Gradient and Intercept
- **Quadratic Graphs**



Percentages

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

Averages

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

Transformations

- Enlargement
- Reflection
- Translation
- Rotation

Ratio 1

Use ratio

SPRING

2:2

- notation Simplify ratios
- Ratios as fractions

Equations and Inequalities

- Solve 1 and 2 step equations
- Form equations

SPRING 2:1

Compound Measures

- **Distance Time** Graphs
- Speed
- Density
- Pressure

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

Number 1

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

Area and Perimeter

- Triangles, Trapezia, Parallelogram
- Circles
- Circumference

1:1

Angles & Shapes

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

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

OUR LEARNING JOURNEY

Key

Topics in green are for Set 1/2 only

