



Maths (Foundation) GCSE Topic Lists for Revision

Subject: Maths (Foundation)

Topic or component:

Number (* see Ratio – some overlap of topic areas)

Topic	Detail
Arithmetic	Four operations
	Negative number
	Order of operations
	Estimation
Fractions*	Arithmetic
	Fraction of a number
	Improper fraction
	Fraction to decimal
Properties	Number line decimal
	Number problem
	Place value
	Prime number
	Factor
	Multiple
	Highest Common Factor
	Cube number
	Decimal place
	Error interval
Indices	Laws of indices
	Calculation
Standard Form	Conversion
	Calculation
Other	Inequality notation
	Money problem
	Systematic listing
	Units of measure

Algebra

Topic	Detail
Equations	Number machine
	Linear
Manipulation	Equivalent expressions
	Terms
	Multiply out
	Factorisation
	Simplification
	Substitution
Graphs	Formula
	Coordinates
	Midpoint
	Point on line
	Intercept of a line
	Gradient of a line
	Roots
	Turning point
	Equation of a line
	Recognise
	Plot
	Linear graph
	Intersection of lines
Reasoning	Interpret
	Formula
Sequences	Sequence rule to find a term
	Arithmetic
	Geometric
	n th term

Ratio (*see Number – some overlap of topic areas)

Topic	Detail
Conversions	Lengths
	Time
Percentage*	Percentage of an amount
	Amount as a percentage
	Ratio and percentage
	Percentage increase
Fraction*	Percentage decrease
	Fraction less than 1
Ratio	Fraction to percentage
	Simplest form
	n : 1 form
	Share into a ratio
Applications	Ratio to fraction
	Ratio problem
	Scale diagram
	Better value
	Interpretation
	Ratio to graph
	Ratio to percentage
	Equation to percentage
	Cost problem
	Rate of output
	Average speed
Density	
Proportion problem	

Geometry and Measures

Topic	Detail
Shape	Draw shape
	Name
	Regular
	Line symmetry
	Rotational symmetry
	Quadrilateral
	Parallelogram
	Naming circle part
	Part of circle
	Circle
	Cylinder
	Sphere
	Types of triangle
	Pythagoras
	Trigonometry
	Translation
Measures	Time problem
Area and Volume	Compound shape
	Perimeter
	Sector of a circle
Angles	In triangles
	Alternate angles
Constructions	Region
Other	Vector arithmetic

Statistics	
Diagrams	Two-way table
	Pie chart
	Vertical line diagram
	Bar chart
Measures	Averages problem
	Outlier
	Range
	Mean
	Mean from diagram

Probability	
	Frequency tree
	Relative frequency
	Expected value
	Problem
	Estimate of probability
	Venn diagram
	Tree diagram

These are the topics across ALL 3 PAPERS. For the topics which will be covered on a specific paper, please refer to the following document released by AQA:

<https://filestore.aqa.org.uk/content/summer-2022/AQA-8300-AI-22.PDF>

Some topics are covered across multiple papers.

Strategies and Resources for Revision:

Past Exam Paper Practice – practice AQA past exam papers. Link here:

<https://revisionmaths.com/gcse-maths/gcse-maths-past-papers/aqa-gcse-maths-past-papers>

Hegarty Maths – search for topics on Hegarty Maths, watch the videos to help you revise the content and make notes from the videos going through the examples. Then attempt the quizzes to check you understand the content. You can also use the revise section of the website to practice topics you have completed on there previously. Link here:

<https://hegartymaths.com/login/learner>

Maths Watch – search for topics on Maths Watch, watch the videos to help you revise the content and attempt the questions to check you understand. Link here:

<https://vle.mathswatch.co.uk/vle/>

Corbett Maths – search for topics on Corbett Maths, watch the videos to help you revise the content and attempt the questions to check you understand. The “textbook exercise” questions are more for fluency practice (checking you understand the skills and methods involved) and the “practice questions” are more like exam style questions. Link here:

<https://corbettmaths.com/contents/>