



GCSE FOUNDATION Maths: Revision Guidance

Circulation	Year 11- Foundation Student
Title	Year 11- GCSE Revision
Purpose	To provide revision information for GCSE Foundation Maths Exam

You will sit **three papers** in total, **one non- calculator** and **two calculator**

Unit 1: Number

Estimating, HCF/ LCM, Indices, Factors and Multiples, Standard form

Unit 2: Algebra

Expanding and factorising, Equations, Formulas, Substitution, Linear sequences, Rearranging the formula, Expand and factorise double brackets

Unit 3: Data

Statistical diagrams including Pie charts, Time series, Scatter graphs, Averages and Range, Frequency tables, Two way tables, Stem and Leaf diagrams, Estimating the mean

Unit 4: Fractions, Ratio and Percentages

Fractions, Ratio, proportion, Percentages, FDP, Direct and Inverse proportion, Ratio problems

Unit 5: Angles and Trigonometry

Angles on a Parallel line, Interior/ Exterior angles, Pythagoras Theorem, Trigonometry

Unit 6: Graphs

Linear and non- linear graphs, Rates of change, Real life graphs, Gradients, $y = mX+c$

Unit 7: Area and Volume

Area and Perimeter of 2d shapes, Prisms, Circles, Sectors and Arc Lengths, Cylinders, Composite shapes, Pyramids and cones

Unit 8: Transformation and constructions

3D solids, Transformation, Scales drawings, Plans and Elevations, Constructions, Loci and Bearing

Unit 9: Equations and inequalities

Solving linear inequalities, Linear Simultaneous equations, Solving equations, Solving equations with brackets

Unit 10: Probability

Combined/ Experimental/ independent probability, Tree diagrams, Venn diagrams

Unit 11: Multiplicative reasoning

Percentages, Growth and decay, Compound measure, Ratio and proportion

Unit 12: Similarity and congruency

Congruency and similar shapes, Vectors

Unit 13: Statistics

Sampling, Solving simultaneous equations algebraically and graphically

3 Papers- Non- Calculator: The exam will be 1 hour 30 minutes.

Calculator: The exam will be 1 hour 30 minutes.

Calculator: The exam will be 1 hour 30 minutes.

You must answer all questions in the paper. You will need a black pen, pencil, ruler, protractor, compass and calculator for the exam.

Further detail and revision materials can be found here:

Maths Genie: <https://www.mathsgenie.co.uk/gcse.php>

Corbettmaths: [Edexcel Foundation Revision - Corbettmaths](#)

1st Class maths: [1st Class Maths - Free online GCSE Maths Revision](#)

Sparx Maths: [Sparx Maths Login](#)



GCSE HIGHER Maths: Revision Guidance

Circulation	Year 11- Higher Student
Title	Year 11- GCSE Revision
Purpose	To provide revision information for GCSE Higher Maths Exam

You will sit **three papers** in total, **one non- calculator** and **two calculator**

Unit 1: Number

Estimating, HCF/ LCM, Indices, Fractional indices, Standard form. Surds

Unit 2: Algebra

Algebraic Indices, Expanding and factorising, Equations, Formulas, Linear and Non- Linear sequences, Rearranging the formula, Algebraic fractions

Unit 3: Data

Statistical diagrams, Time series, Scatter graphs, Averages and Range

Unit 4: Fractions, Ratio and Percentages

Fractions, Ratio, proportion, Percentages, FDP, Direct and Inverse proportion

Unit 5: Angles and Trigonometry

Angles on a Parallel line, Interior/ Exterior angles, Pythagoras Theorem, 3d Pythagoras, Trigonometry, 3D Trigonometry, Trigonometric graphs

Unit 6: Graphs

Linear and non- linear graphs, Rates of change, Real life graphs, Line segments, quadratic, cubic and reciprocal graphs

Unit 7: Area and Volume

Area and Perimeter of 2d shapes, Bounds, Prisms, Circles, Sectors and Arc Lengths, Cylinders, Sphere, Pyramids and cones

Unit 8: Transformation and constructions

3D solids, Transformation, Scales drawings, Plans and Elevations, Constructions, Loci and Bearing

Unit 9: Equations and inequalities

Solving linear and quadratic inequalities, Completing the square, Linear and quadratic Simultaneous equations

Unit 10: Probability

Combined/ Experimental/ independent probability, Tree diagrams, Venn diagrams and notations

Unit 11: Multiplicative reasoning

Growth and decay, Compound measure, Ratio and proportion

Unit 12: Similarity and congruency

Congruency and similar shapes, Similarity in 3D solids

Unit 13: Statistics

Sampling, Cumulative frequency, Box plot, Histograms

Unit 14 Equations and graphs

Simultaneous equations graphically, inequalities graphically, iteration

Unit 15: Circle theorems

Radii and chords, Tangents, Applying circle theorems

Unit 16: Vectors and geometric proof

Vectors and vectors notations, Parallel and collinear points, Solving geometric problems

3 Papers- Non- Calculator: The exam will be 1 hour 30 minutes.

Calculator: The exam will be 1 hour 30 minutes.

Calculator: The exam will be 1 hour 30 minutes.

You must answer all questions in the paper. You will need a black pen, pencil, ruler, protractor, compass and calculator for the exam.

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