

Higher Tier Themed Papers

Learning & Revision support for GCSE (9-1) Maths

We have produced a compendium of themed papers with student-friendly mark schemes and worked solutions. All the papers have been compiled using past papers, Mock papers and Specimen papers. These are all organised by theme and topic. To access this resource:

- ✓ Login to the [Maths Emporium](#) and click the links to download the paper you want. If you don't have a Maths Emporium account, [click here to sign up](#).

More support materials are available from our [Maths Qualifications Summer 2022 Support page here](#).



Master Spreadsheet

The details of how these papers have been compiled can be found in this spreadsheet, including details on where each question has been taken from, the specification references for each question and item level statistics on how the question performed.

We have also produced 51 Foundation Tier themed papers which are available here.



Algebra

- Algebraic Fractions
- Algebraic Proof
- Change the Subject
- Complete the Square
- Expand & Factorise
- Functions
- Indices
- Inequalities
- Inequalities: Shaded Regions
- Iterations
- Coordinate Geometry: Linear Graphs
- Coordinate Geometry: Circles
- Match the Graph to the Equation
- Quadratic Sequences
- Quadratic Graphs
- Simultaneous Equations
- Solving Equations: Quadratics
- Solving Equations: Linear

Geometry

- Angles
- Angles: Regular Polygons
- Angles: Proof
- Area & Perimeter: Arcs, Sectors & Circles
- Circle Theorems A
- Circle Theorems B
- Transformations
- Trigonometry 2D & Bearings
- Trigonometry 3D
- Vectors
- Volume: Spheres & Cones
- Transformations: Trig Graphs

Statistics & Probability

- Buttons & Counters
- Mean
- Median & Quartiles
- Probability and Statistical diagrams
- Probability
- Histograms
- Cumulative Frequency
- Box Plots
- Tree Diagrams
- Scatter Graphs & Frequency Polygons

Number

- Combinations
- Factors, Multiples & Primes
- Indices
- Recurring Decimals
- Standard Form
- Surds
- Upper & Lower Bounds

Ratio & Proportion

- Compound Interest
- Direct & Inverse Proportion
- Density Problems
- Ratio & Proportion
- Percentages
- Percentages: Increase Decrease
- Similarity

Themes

- Area & Perimeter
- Buttons & Counters
- Density Problems
- Speed, Distance & Time
- What's gone Wrong?

Click here to download all the question papers and mark schemes

