

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 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 56 Higher Tier themed papers which contain crossover questions for transition from Foundation to Higher Tier which are available here.









### Number

-  Calculator skills
-  Factors, multiples and primes
-  Fractions, decimals and percentages
-  Manipulating fractions
-  Place value and rounding
-  Standard form











### Algebra

-  Algebraic proof
-  Change the subject
-  Expand and factorise, solve quadratics
-  Expressions
-  Inequalities
-  Indices
-  Points, lines and curves
-  Sequences
-  Solve linear equations
-  Simultaneous equations











### Ratio and Proportion

-  Metric conversions
-  Ratio and proportion
-  Recipes
-  Savings
-  Sharing money
-  Similarity and congruence















### Statistics and Probability

-  Buttons and counters
-  Cards, dice, coins and spinners
-  Sets and Venn diagrams
-  Bar Charts
-  Frequency trees and tree diagrams
-  Pictograms
-  Pie charts
-  Scatter graphs
-  Stem and leaf diagrams
-  What's wrong with the diagram?

### Geometry

-  Angles
-  Geometrical reasoning
-  Area and perimeter
-  Circles: Area and perimeter
-  Circles: Label
-  Surface area and volume
-  Similarity and congruence
-  Transformations
-  Trigonometry
-  Vectors

### Themes

-  Buttons and counters
-  Buying and selling
-  Cards, dice, coins and spinners
-  Estimate
-  Food
-  Height, length and weight
-  Holidays
-  Income
-  Problems
-  Recipes
-  Right or wrong?
-  Savings
-  Sharing money
-  Speed, distance, time

Click here to download all the question papers and mark schemes

