

## **M.K. HOME TUITION**

Level: GCSE Higher Tier

## **LINKS TO EXAMINATION QUESTIONS**

Here is a selection of questions by subject, taken from past examination papers. They are mostly grouped by subject topic, although there are also several longer multi-topic questions as well.

### **Current Course Material (2017 onwards)**

The questions are all from the latest (2017) course material and include specimen questions as well as actual past paper questions.

### **Number**

[Basic Arithmetic](#)

[Arithmetic Problems](#)

[Indices and Powers](#)

[Approximation and Rounding](#)

[Fractions and Decimals](#)

[Percentages](#)

[Ratio and Proportion](#)

[Ratio : Similar Figures and Maps](#)

[Direct and Inverse Proportion](#)

[Factors, Multiples, H.C.F. , L.C.M.](#)

[Surds](#)

[Standard Form](#)

## **Algebra**

[Mixed Algebra Problems](#)

[Algebraic Methods](#)

[Linear Equations](#)

[Formulae](#)

[Functions](#)

[Simultaneous Equations](#)

[Inequalities](#)

[Quadratic Equations](#)

[Algebraic Proof](#)

[Numerical Methods – Iteration](#)

[Sequences](#)

[Straight Lines](#)

[Real-Life Graphs \(AQA\)](#)

[Real-Life Graphs \(Pearson Edexcel\)](#)

[Real-Life Graphs \(OCR\)](#)

[Plotting Non-Linear Graphs](#)

[Recognising Non-Linear Graphs](#)

[Transformations of Graphs](#)

## **Shape and Space**

[Mixed Shape and Space Problems](#)

[Angle Problems](#)

[Triangles, Quadrilaterals and Polygons](#)

[Right-Angled Triangles, Pythagoras](#)

[General Triangles, Sine and Cosine Rules](#)

[Three-Dimensional Trigonometry](#)

[Circle Theorems](#)

[Measuring Shapes](#)

[Solid Shapes](#)

[Transformations](#)

[Circular Measure](#)

[Loci, Measures and Constructions](#)

[Vectors](#)

[Areas, Volumes and Similarity](#)

## **Data and Statistics**

[Surveys and Sampling](#)

[Averages](#)

[Histograms](#)

[Cumulative Frequency](#)

[Box Plots](#)

[Scatter Diagrams](#)

[Bar Charts, Pie Charts, Stem & Leaf etc.](#)

[Time Series](#)

[Frequency Trees](#)

[Set Theory and Venn Diagrams](#)

[Probability \(AQA\)](#)

[Probability \(Edexcel\)](#)

[Probability \(OCR\)](#)

### **Legacy Course Material (prior to 2017)**

The questions are all from past papers from 2010 to 2016, and some of the content in them has been altered to reflect the current course material.

#### **Number (Legacy)**

[Basic Arithmetic](#)

[Arithmetic Problems \(AQA\)](#)

[Arithmetic Problems \(Pearson Edexcel\)](#)

[Arithmetic Problems \(OCR\)](#)

[Indices and Powers](#)

[Approximation and Rounding](#)

[Fractions and Decimals](#)

[Percentages](#)

[Ratio and Proportion](#)

[Ratio : Similar Figures and Maps](#)

[Direct and Inverse Proportion](#)

[Factors, Multiples, H.C.F. , L.C.M.](#)

[Surds](#)

[Standard Form](#)

## **Algebra (Legacy)**

[Mixed Algebra Problems \(AQA\)](#)

[Mixed Algebra Problems \(Pearson Edexcel\)](#)

[Mixed Algebra Problems \(OCR\)](#)

[Linear Equations](#)

[Formulae \(Algebraic\)](#)

[Formulae \(Real Life\)](#)

[Functions](#)

[Simultaneous Equations](#)

[Linear Inequalities](#)

[Quadratic Equations](#)

[Algebraic Proof](#)

[Numerical Methods](#)

[Sequences](#)

[Straight Lines \(AQA\)](#)

[Straight Lines \(Pearson Edexcel\)](#)

[Straight Lines \(OCR\)](#)

[Real-Life Graphs](#)

[Plotting Non-Linear Graphs](#)

[Recognising Non-Linear Graphs](#)

[Transformations of Graphs](#)

## **Shape and Space (Legacy)**

[Mixed Shape and Space Problems](#)

[Angle Problems](#)

[Triangles, Quadrilaterals and Polygons](#)

[Right-Angled Triangles, Pythagoras](#)

[General Triangles, Sine and Cosine Rules](#)

[Three-Dimensional Problems and Trigonometry](#)

[Circle Theorems](#)

[Solid Shapes](#)

[Transformations \(AQA\)](#)

[Transformations \(Pearson Edexcel\)](#)

[Transformations \(OCR\)](#)

[Circular Measure](#)

[Loci, Measures and Constructions](#)

[Vectors](#)

[Areas, Volumes and Similarity](#)

## **Data and Statistics (Legacy)**

[Mixed Stats Questions](#)

[Surveys and Sampling](#)

[Pie Charts, Bar Charts, Frequency Polygons etc](#)

[Stem and Leaf Diagrams](#)

[Averages](#)

[Histograms \(AQA\)](#)

[Histograms \(Edexcel\)](#)

[Histograms \(OCR\)](#)

[Cumulative Frequency and Box Plots \(AQA\)](#)

[Cumulative Frequency and Box Plots \(Pearson Edexcel\)](#)

[Cumulative Frequency and Box Plots \(OCR\)](#)

[Scatter Diagrams \(AQA\)](#)

[Scatter Diagrams \(Pearson Edexcel\)](#)

[Scatter Diagrams \(OCR\)](#)

[Time Series](#)

[Probability \(AQA\)](#)

[Probability \(Edexcel\)](#)

[Probability \(OCR\)](#)