# Year 8 Maths KAT Revision Guide

**How to access independent learning?**





**Search For Topics**

- **This is where you enter your topic code.**

**Your Curriculum**

- **If the topic code starts with M select KS3**
- **If the topic code starts with U select GCSE**

**Difficulty Level**

This should be set automatically but if no questions are available at your level you may need to change this to a higher or lower setting.

**Codes**

Green – Key knowledge from Year 8

Black – Knowledge required to be confident

Purple – Knowledge to ensure you excel

| Unit | Small Step | Sparx Code |
|---|---|---|
| **Ratio and Scale** | Simplify Ratio | M885 |
| | Ratio in the form 1:n | M543 |
| | Sharing in a Ratio | M525 |
| | Ratio and Fractions | M267 |
| | Direct Proportion | M478 (S) |
| | Percentage Increase/Decrease | M905 M533 |
| | Circumference of a Circle | M169 |
| **Multiplicative Change** | Solving Problems with Direct Proportion | M472 |
| | Currency Conversion | U610 |
| | Direct Proportion Graphs | M448 (I) |
| | Real life Graphs | M771 |
| | Scale Factors | M324 |
| | Scale Drawings | M112 |
| **Multiplying and Dividing Fractions** | Converting mixed numbers/improper fractions | M601 |
| | Multiplying Fractions by Fractions | M157 |
| | Dividing Fractions | M110 |
| | Multiply and Divide Mixed Numbers | M197, M264 |
| **Working in the Cartesian Plane** | Reading and Plotting Coordinates | M618 |
| | Plotting Lines parallel to the axes | M797 |
| | Plot Straight Lines | M932 |
| | Equations of Lines | M888 |
| | Real life Graphs | M771 |
| **Representing Data** | Types of Data | U322 |
| | Draw and Use Scatter Graphs | M769 |
| | Lines of Best Fit | M596 |
| | Read and Interpret Frequency Tables | M899 |
| | Read and Interpret Ungrouped Frequency Tables | M441 |
| | Two-way Tables | M899 |
| **Tables and Probability** | Probabilities as Fractions | M941 |
| | Construct and Use Sample Spaces | M718 |
| | Venn Diagrams | M829 M419 |
| | Probability from tables | U246 |
| | Product Rule for Repeated Events | M299 |
| **Brackets, Equations and Inequalities** | Algebraic Notation | M813 |
| | Expand Single Brackets | M237, M792 |
| | Factorise Single Brackets | M100 |
| | Solve Equations with Brackets | M957, M509 |
| | Solve Inequalities | M118 |
| | Solve Inequalities with Unknown on Both Sides | M732 |
| | Expand Double brackets | M960 |
| | Formulae, Expressions, Identities and Equations | M830 |
| **Sequences** | Patterns | M241 M866 |
| | Sequences from algebraic rules | M166 |
| | Find the nth Term Rule | M991 |
| **Indices** | Index Rules | M608, M120 |