For the **End of Key Stage 2 Maths Reasoning Test**, key revision areas include:

1. Number & Place Value

- Reading, writing, ordering, and comparing numbers up to 10,000,000
- Rounding to the nearest 10, 100, 1,000, etc.
- Negative numbers (counting through zero, ordering, and calculating differences)

2. Addition, Subtraction, Multiplication & Division

- Formal written methods (column addition/subtraction, long multiplication, long division)
- Mental calculations and estimation strategies
- Identifying missing numbers in calculations
- Understanding and using factors, multiples, prime numbers, square numbers, and cube numbers
- Order of operations (BODMAS/BIDMAS)

3. Fractions, Decimals & Percentages

- Simplifying fractions and equivalent fractions
- Comparing and ordering fractions, decimals, and percentages
- Adding, subtracting, multiplying, and dividing fractions
- Converting between improper fractions and mixed numbers
- Finding fractions and percentages of amounts
- Decimal place value and rounding decimals

4. Ratio & Proportion

- Solving problems involving scaling up and down
- Using ratio notation and simplifying ratios
- Finding missing values in proportion problems

5. Algebra

- Finding missing numbers in sequences and number patterns
- Using simple formulae (e.g., area of a rectangle = length × width)
- Solving basic equations (e.g., $3x + 5 = 20$)

6. Measurement

- Converting between metric units (e.g., mm to cm, g to kg, ml to l)
- Converting between miles and kilometres
- Perimeter, area, and volume of shapes

- Reading scales accurately (rulers, measuring jugs, thermometers)

7. Geometry: Properties of Shapes

- Identifying and classifying 2D and 3D shapes
- Measuring and calculating angles (acute, obtuse, reflex)
- Understanding angles on a straight line (180°) and around a point (360°)
- Symmetry and reflection

8. Geometry: Position & Direction

- Coordinates in all four quadrants
- Translating and reflecting shapes on a coordinate grid

9. Statistics

- Reading and interpreting tables, graphs, and charts
- Understanding mean, mode, median, and range
- Comparing different data sets

10. Problem Solving & Reasoning

- Applying mathematical knowledge to word problems
- Breaking down multi-step problems
- Identifying patterns and relationships
- Explaining reasoning clearly

Would you like specific practice questions or revision tips for any of these areas?