

## Year 5 Mathematics Milestones

### Number and Calculation

- Secure place value to 1,000,000
- Use negative whole numbers on context
- Use Roman numerals to 1000 (M)
- Use standard written methods for all four operations
- Confidently add and subtract mentally
- Use vocabulary of prime, factor and multiple
- Multiply and divide by powers of ten
- Use square and cube numbers

### Geometry and Measure

- Convert between different units
- Calculate perimeter of composite shapes and area of rectangles
- Estimate volume and capacity
- Identify 3-d shapes
- Measure and identify angles
- Understand regular polygons reflect and translate shapes

### Fractions

- Compare and order fractions
- Add & subtract fractions with common denominators, with mixed numbers
- Multiply fractions by units
- Write decimals as fractions
- Order & round decimal numbers
- Link percentages to fractions & decimals

### Data

- Interpret tables and line graphs
- Solve questions about line graphs

## Year 6 Mathematics Milestones

### Number and Calculation

- Secure place value & rounding to 10,000,000, including negatives
- All written methods, including long division
- Use order of operations (not indices)
- Identify factors, multiples and primes
- Solve multi-step number problems

### Algebra

- Introduce simple use of unknowns

### Geometry and Measure

- Confidently use a range of measures and conversions
- Calculation area of triangles / parallelograms
- Use area and volume formulas
- Classify shapes by properties
- Know and use angle rules
- Translate and reflect shapes, using four quadrants

### Fractions, decimals and percentages

- Compare and simplify fractions
- Use equivalents to add fractions
- Multiply simple fractions
- Divide fractions by whole numbers
- Solve problems using decimals and percentages
- Use written division up to 2dp
- Introduce ratio and proportion

### Data

- Use pie charts
- Calculate mean averages