Assessment: Meeting Year 6 Expectations

Year 6 Expectations: Number

- Use negative numbers in context, and calculate intervals across zero
- Round any whole number to a required degree of accuracy and solve problems which require answers to be rounded to a specific degree of accuracy
- Solve problems involving the relative sizes of two quantities where the missing values can be found by using integer multiplication and division facts
- Use common factors to simplify fractions; use common multiples to express fractions in the same denomination
- Solve problems involving the calculation of percentages, (e.g. of measures) such as 20% of 440 and the use of percentages for comparison
- Multiply 1-digit numbers with up to two decimal places by whole numbers
- Perform mental calculations, including with mixed operations with large numbers
- Divide numbers up to 4-digits by a 2-digit whole number using formal written methods of long division and interpret remainder in various ways
- Use knowledge of order of operations to carry out calculations involving all four operations
- Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
- Multiply simple pairs of proper fractions, writing the answer in its simplest form
- Divide proper fractions by whole numbers ($\frac{1}{8} \div 2 = 1/16$
- Associate a fraction with division and calculate decimal fraction equivalents (eg, 0.375 for $\frac{3}{8}$)
- Express missing number problems algebraically
- Find pairs of numbers that satisfy an equation with two unknowns

Year 6 Expectations: Measurement, Geometry and Statistics

- Recognise, describe and build simple 3D shapes, including making nets
- Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangle, quadrilateral and regular polygons
- Illustrate and name parts of circles, including radius, diameter and circumference and know that the radius is half the diameter
- Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and visa versa, using decimal notation to up to 3 decimal places
- Calculate the area of a parallelogram and triangles and calculate, estimate and compare volume of cubes and cuboids using standard units
- Interpret and construct pie charts and line graphs and use these to solve problems

Parents' Guide
'Must Dos' by the end of Year 6

Number

- Read, write and order numbers to 10,000,000
- Round any number to any degree of accuracy
- Add and subtract negative numbers
- Multiply a 4-digit number by a 2-digit number
- Divide a 4-digit number by a 2-digit number, expressing remainder as a fraction, decimal fraction or by rounding to whole numbers
- Mental Agility: Calculations involving large numbers
- Mental Agility: Calculations involving two operations
- Use estimation to check answers
- Carry out problem solving calculations involving all 4 operations
- Add and subtract mixed numbers with fractions of different denominations

Number

- Fractions: Multiply simple fractions, writing answers in their simplest forms
- Divide proper fractions by whole numbers
- Identify value of each digit in a 3 decimal place number
- Multiply decimal fraction with 3 decimal places by 10, 100 and 1000
- Multiply and divide a number with 2 decimal places by 1-digit and 2-digit numbers
- Percentages: Use percentages for comparisons
- Calculate percentage of whole numbers
- Recall and use equivalences between fractions, decimal fractions and percentages
- Ratio: Use ratio to show relative sizes of 2 quantities
- Algebra: Solve linear missing numbers
- Continue a linear number sequence involving positive and negative numbers

Parents' Guide
'Must Dos' by the end of Year 6

Shape and Measures

•Compare and classify geometrical shapes based on properties and size

•Find unknown angles in a triangle, quadrilateral and regular polygon

•Illustrate and name parts of a circle, including radius, diameter and circumference

•Recognise, describe and build 3D shapes

•Create a cuboid from a net

•Describe properties of 3D shapes and identify parallel planes and symmetry

•Estimate size of angles

•Describe position on the full coordinate grid

•Draw, translate and reflect shapes

•Read, write and convert between standard units

Shape and Measures

- Calculate area of parallelograms and triangles
- Data: Draw, read and interpret graphs
- Use and interpret mean as an average