Numeracy Key Objectives

Reception

- Count reliably up to 10 everyday objects.
- Recognise numerals 1 to 9.
- Use language such as more or less, greater or smaller, heavier or lighter.
- Find one more or less that a number from 1 to 10.
- In practical activities begin to understand addition and subtraction.
- Talk about and recognise simple patterns.
- Describe solid and flat shapes.
- Use mathematical ideas and methods to solve practical problems.

Year 1

- Count reliably at least 20 objects.
- Count on and back in ones and tens from any small number.
- Read, write and order numbers from 0 to at least 20.
- Within the range 0 to 30, say the number that is 1 or 10 more or less than any given number.
- Understand the operation of addition and subtraction.
- Know by heart all pairs of numbers with a total of 10.
- Use mental strategies to double and half numbers up to 10.
- Estimate, then measure, a length, mass or capacity.
- Tell the time to o'clock and half past.
- Use everyday language to describe familiar 3D and 2D shapes.

Year 2

- Count, read, write and order whole numbers to at least 100.
- Describe and extend simple number sequences (including odd/even numbers).
- Know by heart all addition and subtraction facts for numbers to at least 10.
- Know that addition that can be done in any order.
- Know that subtraction is the inverse of addition.
- Understand the operation of multiplication as repeated addition.
- To be able to double and half numbers.
- Know by heart the 2x and 10x tables.
- Use a ruler to draw and measure lines to the nearest centimetre.
- Know the names of simple 2D and 3D shape.
- Describe position, movement and direction.
- Read time to o'clock, half past, quarter past and quarter to.

Year 3

- Read, write and order numbers to at least 1000.
- Count on or back in tens or hundreds from any 2 digit or 3 digit number.
- Recognise fraction ½, ⅓, ¼, 1/5,1/10 and use them to find fractions of shapes and numbers.
- Know by heart all addition and subtraction facts for each number to 20.
- Know by heart facts for the 2x, 5x and 10x tables.
- Understand that division is the inverse of multiplication.
- Know and understand second, minute hour, day, week, month and year.
- Understand and use £.p notation.
- Solve problems explaining methods.
- Identify lines of symmetry.
- Read and interpret simple lists, tables and graphs.

Year 4

- Use symbols less than (<), greater than (>), equals (=).
- Round numbers to the nearest 10 or 100.
- Recognise simple fractions
- Add or subtract mentally any 2 digit numbers.
- Carry out column addition and subtraction.
- Know by heart facts for the 2, 3, 4, 5 and 10 multiplication tables.
- Derive quickly division facts corresponding to 2, 3, 4, 5 and 10 multiplication tables.
- Find remainders after division.
- Understand the different units in length, mass and capacity.
- Find right angles and lines of symmetry in shapes.
- Solve problems mentally.

Year 5

- Order a given set of positive and negative numbers.
- Use decimal notation for tenths and hundredths.
- Round a number with one or two decimal places.
- Relate fractions to division.
- Calculate mentally a difference such as 8006-2993.
- Carry out column addition and subtraction.
- Know by heart all multiplication facts up to 10 x 10.
- Multiply and divide three-digit numbers.
- Understand area (cm^2) and use the formula 'length x breadth'.
- Recognise parallel and perpendicular lines.
- Solve word and time problems.

Year 6

- Multiply and divide decimals mentally.
- Order a mixed set of numbers up to three decimal places.
- Reduce a fraction to its simplest form.
- Understand percentage as the number of parts in every 100.
- Solve simple problems involving ratio and proportion.
- Carry out column addition and subtraction of numbers with decimals.
- Derive quickly division facts corresponding to multiplication tables up to 10 x 10.
- Carry out multiplication and division of numbers involving decimals.
- Carry out long multiplication of a three-digit number.
- Use a protractor to measure angles.
- Calculate the perimeter and area of shapes.
- Read and plot co-ordinates.
- Solve word problems and explain methods and reasoning.
- Read and interpret tables, graphs and charts.