2014 MATHEMATICS CURRICULUM - Year 1

Number - Number and place value

- Count to and across 100, forwards or backwards, beginning with 0 or 1, or from any given number
- Count, read and write numbers to 100 in numerals
- Identify one more and 1 less
- Represent numbers using objects / pictorial representations including number lines
- Understand language of equal to / more than / less than / fewer / most / least
- Read and write 1 - 20 in numbers and words
- Use ordinal numbers
- Indicate quantities in counting - 1 apple / 2 centimetres etc
- Solve simple concrete problems
- Recognise place value in numbers beyond 20
- Compare numbers up to 100, supported by objects and pictorial representations
- Count as reciting and enumerating objects
- Count in 2's from different multiples
- Count in 5's from different multiples
- Count in 10's from different multiples
- Recognise odd and even numbers
- Recognise and create repeating patterns with objects and shapes

Number - Multiplication and division

- Solve one-step problems involving multiplication and division
- Use concrete objects / pictorial representations / arrays to calculate multiplication and division problems
- Group and share small quantities
- Begin to understand multiplication and division
- Double numbers and quantities
- Find simple fractions of objects / numbers / quantities
- Make links between arrays / number patterns / counting in 2's, 5's & 10's

Number - Addition and subtraction

- Read, write and interpret mathematical statements - including + / - / =
- Represent and use number bonds and related subtraction facts within 20
- Add and subtract 1d and 2d numbers to 20, including 0
- Solve one-step problems involving addition and subtraction
- Use concrete objects and pictorial representations to solve one-step problems
- Solve missing number problems
- Memorise and reason with number bonds to 10 and 20
- Understand the effect of adding zero
- Count forwards and backwards to add and subtract
- Discuss and solve problems in familiar contexts
- Solve problems using quantities
- Understand language of put together / add / altogether / total / take away / distance between / more than / less than

Number - Fractions

- Recognise, find and name a half as one of two equal parts of an object / shape / quantity
- Recognise, find and name a quarter as one of four equal parts of an object / shape / quantity
- Solve problems using shapes / objects / quantities
- Recognise and find half a length / quantity / set of objects or shape
- Understand halves and quarters to the equal sharing and grouping of sets of objects / measures
- Recognise and combine halves and quarters as parts of a whole

Measurement

- Compare, describe and solve practical problems for lengths and heights
- Understand language of long / short / longer / shorter / tall / short / double / half
- Compare, describe and solve practical problems for mass / weight
- Understand language of heavy / light / heavier / lighter
- Compare, describe and solve practical problems for capacity and volume
- Understand language of full / empty / more than / less than / half / half full / quarter
- Compare, describe and solve practical problems for time
- Understand language of quicker / slower / earlier / later
- Measure and begin to record lengths and heights / mass / weight / capacity and volume / time - hours / minutes / seconds
- Recognise and know the value of different denominations of coins and notes
- Sequence events in chronological order
- Understand language of before / after / next / first / today / yesterday / tomorrow / morning / afternoon / evening
- Recognise and use language relating to dates - days of the week / weeks / months / years
- Tell the time to the hour and half hour
- Draw the hands on a clock face to show o'clock and half past
- Use and compare quantities using non-standard units
- Begin to use standard units to compare and measure - rulers / weighing scales / containers

Geometry - Properties of shapes

- Recognise and name common 2-D shapes - rectangles / squares / circles / triangles
- Recognise and name common 3-D shapes - cuboids / cubes / pyramids / spheres
- Relate 2-D and 3-D shapes to everyday objects
- Recognise these shapes in different sizes and orientations
- Know that rectangles, triangles, cuboids and pyramids are not always similar to each other

Geometry - Position and direction

- Describe position, direction and movement
- Understand language of left / right / top / middle / bottom / on top of / in front of / above / between / around / near / close / far / up / down / forwards / backwards / inside / outside
- Make whole, half, quarter and three-quarter turns in both directions
- Connect turning clockwise with the movement on a clock face