Maths overview

**Geometry Shape  
\***Recognise and name common 2D and 3D shapes, including rectangles, squares, circles and triangles, cuboids, pyramids and spheres.  
\* Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line.   
\*Compare and sort common 2D shapes and everyday objects.   
\*Order and arrange combinations of mathematical objects in patterns and sequences.  
\* Describe position, direction and movement, including whole, half, quarter and three quarter turns.   
\*Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).

**Addition and Subtraction**\*Represent and use number bonds and related subtraction facts (within 10 and 20).  
\*Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.  
\* Add and subtract one digit numbers (to 10), including zero.   
\*Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two digit number and ones; a two digit number and tens; two two digit numbers; adding three one digit numbers.   
\*Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.   
\*Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems.   
\*Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods.   
\*Show that the addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. \*Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems  
\*Add and subtract one digit and two digit numbers to 20, including zero.   
\* Recall and use multiplication and division facts for the 2, 5 and 10 times tables.   
\*Recognising odd and even numbers.   
\*Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) sign.   
\*Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts.   
\*Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.

**Place Value  
\***Count to ten, forwards and backwards, beginning with 0 or 1, or from any given number. \*Count in multiples of twos.   
\*Count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward. \*Count, read and write numbers to 10 in numerals and words.   
\*Read and write numbers to at least 100 in numerals and words.  
\* Recognise the place value of each digit in a two digit number (tens, ones)   
\*Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. \*Identify, represent and estimate numbers to 100 using different representations including the number line.   
\*Given a number, identify one more or one less.   
\*Compare and order numbers from 0 up to 100.  
\*use and = signs.   
\*Use place value and number facts to solve problems.  
\*Count to twenty, forwards and backwards, beginning with 0 or 1, from any given number. \*Count, read and write numbers from 1 to 20 in numerals and words.   
\*Count in multiples of twos and fives