|  |
| --- |
| **Number: Place Value** |
| **Counting**   * count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward   **Comparing Numbers**   * compare and order numbers from 0 up to 100; use <, > and = signs   **Identifying, representing and estimating numbers**   * identify, represent and estimate numbers using different representations, including the number line   **Reading and Writing Numbers**   * read and write numbers to at least 100 in numerals and in words   **Understanding Place Value**   * recognise the place value of each digit in a two-digit number (tens, ones)   **Problem Solving**   * use place value and number facts to solve problems. |
| **Number: Addition and Subtraction** |
| **Number Bonds**   * recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100   **Mental Calculation**   * 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 * show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot   **Inverse operations, estimating and checking answers**   * recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.   **Problem Solving**   * 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 |
| **Number: Multiplication and Division** |
| **Multiplication and Division Facts**   * count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward * recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers   **Mental Calculation**   * show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot   **Written Calculation**   * calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs   **Problem Solving**   * solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. |
| **Number - Fractions** |
| **Counting in fractional steps**   * Pupil should count in fractions up to 10, starting from any number and using the ½ and 2/4 equivalence on the number line (non statutory guidance)   **Recognising Fractions**   * recognise, find, name and write fractions ⅓, ¼, 2⁄4 and ¾ of a length, shape, set of objects or quantity   **Equivalence**   * write simple fractions e.g. ½ of 6 = 3 and recognise the equivalence of two quarters and one half. |
| **Algebra** |
| **Equations**   * recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems. (copied from Addition and Subtraction) * recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 (copied from Addition and Subtraction)   **Sequences**   * compare and sequence intervals of time (copied from Measurement) * order and arrange combinations of mathematical objects in patterns (copied from Geometry: position and direction) |
| **Measurement** |
| **Comparing and Estimating**   * compare and order lengths, mass, volume/capacity and record the results using >, < and = * compare and sequence intervals of time   **Measuring and Calculating**   * choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels * recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value * find different combinations of coins that equal the same amounts of money * solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change   **Telling the time**   * tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times * compare and sequence intervals of time   **Converting**   * know the number of minutes in an hour and the number of hours in a day. |
| **Geometry: Properties of Shapes** |
| **Identifying shapes and their properties**   * identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line * identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces * identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]   **Comparing and classifying**   * compare and sort common 2-D and 3-D shapes and everyday objects. |
| **Geometry: Position and Direction** |
| **Position, direction and movement**   * 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).   **Pattern**   * order and arrange combinations of mathematical objects in patterns and sequences |
| **Statistics** |
| **Interpreting, constructing and presenting data**   * interpret and construct simple pictograms, tally charts, block diagrams and simple tables * ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity * ask and answer questions about totalling and comparing categorical data. |