Stage 2 – Mathematics

Number and place value

•Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward.
•Read and write numbers to at least 100 in numerals and in words.
•Compare and order numbers from 0 up to 100; using < > = signs.
•Recognise the place value of each digit in a 2-digit number.
•Identify, represent and estimate numbers using different representations, including the number line.
•Use place value and number facts to solve problems.

Calculations

•Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.
•Add and subtract mentally, using 1 and 2 digit numbers.
•Add and subtract numbers within a hundred using concrete objects and pictorial representations. (1 and 2 digit numbers and adding three one-digit numbers)
•Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.
•Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures.
•Solve problems with addition and subtraction applying my increasing knowledge of mental and written methods.
•Recall and use multiplication and division facts for the 2, 5 and 10x tables, including recognising odd and even numbers.
•Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication, division and equals signs.
•Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in context.
•Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.
•Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.

Fractions

•Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity.
•Write simple fractions.
•Recognise the equivalence of 2/4 and 1/2.

Measurement

•Compare and order lengths, mass, volume/capacity and record the results using > < and =.
•Choose and use standard units to estimate and measure length/height in any direction in m and cm using rulers.
•Choose and use standard units to estimate and measure mass in kg and g using scales.
•Choose and use standard units to estimate and measure temperature in ºC using thermometers.
•Choose and use standard units to estimate and measure capacity in l and ml using measuring vessels.
•Recognise and use symbols for £ and p and combine amounts to make a particular value.
•Find different combinations of coins that equal the same amount of money.
•Tell and write the time to five minutes, including quarter to/past and draw the hands on a clock face to show these times.
•Compare and sequence intervals of time.
•Know the number of minutes in an hour and hours in a day.
•Solve simple problems in a practical context involving addition and subtraction of money of the same units, including giving change.

Geometry –properties of shapes

•Compare and sort common 2D shapes and everyday objects.
•Compare and sort common 3D shapes and everyday objects.
•Identify and describe the properties of 2D shapes, including the number of sides and line of symmetry in a vertical line.
•Identify and describe the properties of 3D shapes including the number of edges, vertices and faces.
•Identify 2D shapes on the surface of 3D shapes.

Geometry –position and direction

•Order and arrange combinations of mathematical objects in patterns and sequences.
•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).

Statistics

•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.