

# Year 1/2– Spring Term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
<p><b>Number: Place Value and Multiplication and Division</b> Count to <b>50</b> forwards and backwards, beginning with 0 or 1, or from any number. Count, read and write numbers to <b>50</b> in numerals.</p> <p>Given a number, identify one more or one less.</p> <p>Count in multiples of twos, fives and tens. <b>Count in steps of 2, 3 and 5 from 0, and in tens from any number, forward and backward.</b></p> <p><b>Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers.</b></p> <p>Solve one step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. <b>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts.</b></p> <p><b>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs.</b></p> <p><b>Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.</b></p>				<p><b>Number: Fractions</b> Recognise, find and name a half as one of two equal parts of an object, shape or quantity.</p> <p>Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.</p> <p>Recognise, find, name and write fractions <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity.</p> <p><b>Write simple fractions for example, <math>\frac{1}{2}</math> of 6 = 3 and recognise the equivalence of <math>\frac{2}{2}</math> and <math>\frac{1}{1}</math>.</b></p>			<p><b>Measurement: Length and Height</b> Measure and begin to record lengths and heights. <b>Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm);</b> mass (kg/g); temperature (°C); capacity (litres/ml) <b>to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</b></p> <p>Compare, describe and solve practical problems for: lengths and heights (for example, long/short, longer/shorter, tall/short, double/half) <b>Compare and order lengths, mass, volume/capacity and record the results using &gt;, &lt; and =</b></p>		<p><b>Measurement: Weight and Volume</b> Measure and begin to record mass/weight, capacity and volume. <b>Choose and use appropriate standard units to estimate and measure</b> length/height in any direction (m/cm); <b>mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</b></p> <p>Compare, describe and solve practical problems for mass/weight: [for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] <b>Compare and order lengths, mass, volume/capacity and record the results using &gt;, &lt; and =</b></p>		<p>Consolidation</p>	

## Year 3/4 – Spring Term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
<p><u>Number – multiplication and division</u> Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. <b>Multiply two digit and three digit numbers by a one digit number using formal written layout.</b></p> <p>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objectives. <b>Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as <math>n</math> objects are connected to <math>m</math> objects.</b></p> <p>Recognise and use factor pairs and commutativity in mental calculations.</p>		<p><u>Measurement – Length, Perimeter and Area</u> Measure, compare, add and subtract: lengths (m/cm/mm).  Measure the perimeter of simple 2D shapes. <b>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</b></p> <p>Continue to measure using the appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed and simple equivalents of mixed units. <b>Convert between different units of measure eg kilometre to metre.</b></p> <p>Find the area of rectilinear shapes by counting squares.</p>		<p><u>Fractions</u> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.  Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. <b>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</b></p> <p>Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 <b>Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</b></p> <p>Recognise and show, using diagrams, equivalent fractions with small denominators. <b>Recognise and show, using diagrams, families of common equivalent fractions.</b></p> <p>Add and subtract fractions with the same denominator within one whole. <b>Add and subtract fractions with the same denominator.</b></p>				<p><u>Number – fractions</u> Compare and order unit fractions, and fractions with the same denominators.  Solve problems that involve all of the above.  <b>Recognise and write decimal equivalents of any number of tenths or hundredths.</b></p> <p>Recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math>, <math>\frac{3}{4}</math> <b>Round decimals with one decimal place to the nearest whole number.</b></p> <p>Compare numbers with the same number of decimal places up to two decimal places.</p>			<p><b>Consolidation</b></p>	

# Year 5/6 – Spring Term

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
<p><b>Number: Fractions</b> Compare and order fractions whose denominators are multiples of the same number. <b>Compare and order fractions, including fractions &gt; 1</b></p> <p>Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths. <b>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</b></p> <p>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements &gt;1 as a mixed number [for example <math>\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}</math>]</p> <p>Add and subtract fractions with the same denominator and denominators that are multiples of the same number. <b>Add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions.</b> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. <b>Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example <math>\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}</math>]</b> <b>Divide proper fractions by whole numbers [for example <math>\frac{1}{3} \div 2 = \frac{1}{6}</math>]</b></p> <p>Read and write decimal numbers as fractions [ for example <math>0.71 = \frac{71}{100}</math> ] <b>Associate a fraction with division and calculate decimal fraction equivalents [ for example, 0.375] for a simple fraction [for example <math>\frac{3}{8}</math>]</b></p> <p>Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</p>					<p><b>Number: Decimals and Percentages</b> Read, write, order and compare numbers with up to three decimal places. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. <b>Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places.</b></p> <p>Round decimals with two decimal places to the nearest whole number and to one decimal place. <b>Solve problems which require answers to be rounded to specified degrees of accuracy.</b></p> <p>Solve problems involving number up to three decimal places. <b>Multiply one-digit numbers with up to 2 decimal places by whole numbers.</b> <b>Use written division methods in cases where the answer has up to 2 decimal places.</b></p> <p>Recognise the per cent symbol (%) and understand that per cent relates to ‘number of parts per hundred’, and write percentages as a fraction with denominator 100, and as a decimal. Solve problems which require knowing percentage and decimal equivalents of <math>\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}, \frac{4}{5}</math> and those fractions with a denominator of a multiple of 10 or 25. <b>Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison.</b></p> <p>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</p>			<p><b>Year 5 – Multiplication and Division and RECAP</b> Recognise and use square numbers and cube numbers and the notation for squared (<sup>2</sup>) and cubed (<sup>3</sup>) Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers Establish whether a number up to 100 is prime and recall prime numbers up to 19 <b>Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.</b></p> <p><b>Year 6: Algebra and Ratio</b> <b>Use simple formulae</b> <b>Generate and describe linear number sequences.</b> <b>Express missing number problems algebraically.</b> <b>Find pairs of numbers that satisfy an equation with two unknowns.</b> <b>Enumerate possibilities of combinations of two variables.</b></p> <p><b>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.</b></p> <p><b>Solve problems involving similar shapes where the scale factor is known or can be found.</b></p> <p><b>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</b></p>			