



Spring Meadow Nursery and Infant School

Mathematics scheme of work 2014

Block D: Number - multiplication and division & *Years 1 and 2* Fractions  
(suggested time - 3 weeks)

EYFS Number 40 - 60 + months	<b>Early Learning Goal - Number</b> Children count reliably with numbers from one to 20, place them in order and say which number is one more or one less than a given number. Using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer. They solve problems, including doubling, halving and sharing.
	<i>Notes:</i> <i>Related part of the Early Learning Goal is in bold</i>

Year 1	<p><b>Autumn</b></p> <ul style="list-style-type: none"> <li>• recognise, find and name a half as one of two equal parts of an object and shape</li> </ul> <hr/> <p><b>Spring</b></p> <ul style="list-style-type: none"> <li>• solve one-step problems involving multiplication and division, by calculating the answer using concrete objects or pictorial representations with the support of the teacher e.g.</li> <li>- counting repeated groups of objects</li> <li>- sharing sets of objects into equal groups</li> <li>• recognise, find and name a half as one of two equal parts of object, shape <u>and quantity</u></li> <li>• recognise, find and name a quarter as one of four equal parts of object or shape</li> </ul> <hr/> <p><b>Summer</b></p> <ul style="list-style-type: none"> <li>- solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations <u>and arrays</u> with the support of the teacher e.g.</li> <li>- count repeated groups of objects</li> <li>- sharing sets of objects into equal groups</li> <li>• recognise, find and name a half as one of two equal parts of an object, shape and quantity</li> <li>• recognise, find and name a quarter as one of four equal parts of an object, shape <u>and quantity</u></li> </ul>
	<p><i>Notes:</i> Any underlining indicates progression of the objective from one term to another</p>

Year 2	<p><b>Autumn</b></p> <ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 2 and 10 multiplication tables</li> <li>calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (=) signs</li> <li>show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</li> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</li> <li>recognise, find, name and write fractions <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math>, and <math>\frac{3}{4}</math> of a shape and set of objects</li> <li>write simple fractions for example, <math>\frac{1}{2}</math> of <math>6 = 3</math></li> </ul> <p><b>Spring</b></p> <ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 2, <u>5</u> and 10 multiplication tables</li> <li>calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (=) signs</li> <li>show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</li> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</li> <li>recognise, find, name and write fractions <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math>, and <math>\frac{3}{4}</math> of a <u>length</u>, shape, set of objects or quantity (make links to sharing and grouping - division)</li> <li>write simple fractions for example, <math>\frac{1}{2}</math> of <math>6 = 3</math></li> <li><u>recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math></u></li> </ul> <p><b>Summer</b></p> <ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables</li> <li>calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (=) signs</li> <li>show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</li> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.</li> <li>recognise, find, name and write fractions <u><math>\frac{1}{3}</math></u>, <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 (make links to sharing and grouping - division)</li> <li>write simple fractions for example, <math>\frac{1}{2}</math> of <math>6 = 3</math></li> <li>recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math></li> </ul>
	<p><i>Notes:</i> Any underlining indicates progression of the objective from one term to another</p>

Year 3	<p><b>Autumn</b></p> <ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables; making links between the 4 and 8 x table through doubling</li> <li>write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods</li> <li>solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul> <p><b>Spring</b></p> <ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables; making links between the 4 and 8 x table through doubling</li> <li>write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods</li> <li>solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul> <p><b>Summer</b></p> <ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables; making links between the 4 and 8 x table through doubling</li> <li>write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods</li> <li>solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.</li> </ul>
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