




## Division KS1

<p>EYFS</p>	<p><b>Reception: ELG 2018</b>          Numbers 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, <b>halving and sharing</b>.</p> <p><b>Exceeding:</b>          Estimation and checking quantities by counting up to 20  <b>Combining groups of 2, 5 or 10 or sharing into equal groups</b></p>	
<p>Year</p>	<p>1</p>	<p>2</p>
<p>Layers of vocabulary</p>  <p><b>Appendix 1a</b>          Beck's Tiers of Vocabulary  <b>Appendix 1b:</b>          Vocabulary book</p>	<p><b>Basic to subject specific (Beck's Tiers):</b>          count in ones, twos... tens...          share, groups of, equal groups          odd, even</p> <p><b>Instructional vocabulary:</b>          count out, share out, left, left over</p>	<p><b>Basic to subject specific (Beck's Tiers):</b>          share, share equally one each, two each, three each... group in pairs, threes... tens equal groups of <math>\div</math>, divide, divided by, divided into left, left over</p> <p><b>Instructional vocabulary:</b>          tell me, describe, name, pick out, discuss, talk about, explain, explain your method, explain how you got your answer, give an example of... show how you</p>
<p>NC 2014</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.</p>	<p>Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (<math>\div</math>) and equals (=) signs.</p>
	<p>Concrete, pictorial, abstract</p>	<p>Concrete, pictorial, abstract</p>

# Division KS1

<p>Developing Conceptual/ Procedural Understanding</p>	<p><b>Grouping/Sharing models</b> Using practical contexts and cross-curricular links (PE) such as socks and shoes; animals in the ark to get into groups. Sharing models such as sharing pieces of fruit.</p> <p>Sharing into equal groups 6 frogs shared equally between 2 lily pads gives 3 frogs on each lily pad or Grouping in equal groups 6 frogs grouped in 2s need 3 lily pads to sit on</p> <p><b>GROUPING ITP</b> How many twos?</p>	<p><b>Arrays</b> (rectangular arrangements to show equal groups)</p> <p><b>Decision making</b> How many cars can you make if you have 8 wheels?</p> <p>How many different ways can you arrange 12 buttons in equal groups?</p>	<p><b>Grouping/Sharing models</b> Introduce the ÷ symbol</p> <p>15 frogs shared equally between three lily pads <math>15 \div 3 = 5</math> or 15 frogs grouped in 5s need 3 lily pads to sit on <math>15 \div 5 = 3</math></p> <p>15 ÷ 3 = 5 groups of 3 (grouping)</p> <p><math>20 \div 2 = 10</math></p> <p>5 hops in 15. How big is each hop?</p> <p>There are 7 cakes and 2 children. How many cakes will they get each? (Leftovers/remainders introduced)</p> <p><math>7 \div 2 = 3r1</math></p>	<p><b>Arrays representing the dividend</b></p> <p><math>10 \div 2 = 5</math> and <math>10 \div 5 = 2</math></p> <p><b>Repeated addition (to reach a given target)</b></p> <p>There are 20 sweets in a bag. How many children can have 5 each?</p> <p><b>Repeated subtraction (from a given quantity)</b></p> <p><b>Links to tables</b></p> <p>Use language of division linked to tables using counting stick</p> <p><b>Representing problems</b> Jane has 30 cakes. She wants to share them equally between 5 boxes. How many cakes should go in each box?</p> <p><math>30 \div 5 = 6</math> Number of cakes in each box = 6</p>
<p>Known facts</p>	<p>Count in multiples of twos, fives and tens.</p>		<p>Recall and use <math>\times</math> and <math>\div</math> facts for the 2, 5 and 10 <math>\times</math> tables, including recognising odd and even numbers.</p>	
<p>Essential Knowledge</p>	<p>Count back in 2s</p>	<p>Halves up to 10</p>	<p>Division facts (2 <math>\times</math> table)</p>	<p>Halves up to 20</p>
	<p>Count back in 10s</p>	<p>Halve multiples of 10</p>	<p>Division facts (10 <math>\times</math> table)</p>	<p>Review division facts (2 <math>\times</math>, 5 <math>\times</math>, 10 <math>\times</math> tables)</p>
	<p>Count back in 5s</p>	<p>How many 2s? 5s? 10s?</p>	<p>Division facts (5 <math>\times</math> table)</p>	<p>Count back in 3s</p>
<p>Tests of divisibility</p>	<p>All even numbers will divide by 2</p>		<p>All numbers ending in 0 will divide by 10</p>	<p>All numbers ending in 5 and 0 will divide by 5</p>