

YEAR 1

RAPID RECALL	COUNTING	ADD	SUBTRACT	MULTIPLY	DIVIDE
<p>Represent and use number bonds and related subtraction facts within 20</p> <p><i>Doubles of numbers to 10</i></p> <p><i>Near doubles of numbers to 10</i></p> <p><i>Recall number bonds 1-10</i></p> <p><i>Recognise odd and even numbers to 20</i></p> <p><i>Partition and combine a two digit number - tens and units (ones).</i></p> <p>MORE ABLE <i>To know pairs of multiples of 10 up to 100 (e.g. 40+60, 70+30 etc.)</i></p> <p><i>Find half of even numbers to 20 using knowledge of doubling to help.</i></p>	<p>Count to and across 100, forward and backwards, beginning with 0 or 1, or from any given number</p> <p>Count in multiples of twos, fives and tens</p> <p>Count and read numbers to 100 in numerals</p> <p>Read numbers from 1 to 20 in numerals and words</p> <p>Given a number, identify one more and one less</p> <p>MORE ABLE <i>To find 10 more and 10 less of numbers to 100</i></p> <p><i>Order numbers to 100</i></p>	<p>Add one-digit and two-digit numbers to 20, including zero</p>	<p>Subtract one-digit and two-digit numbers to 20, including zero</p>		<p>Find $\frac{1}{2}$ and $\frac{1}{4}$ of a set of objects</p>

(Non-italic NC assessed objectives 2014)

YEAR 2

RAPID RECALL	COUNTING	ADD	SUBTRACT	MULTIPLY	DIVIDE
<p>Recall and use addition and subtraction facts to 20 fluently</p> <p>Derive and use related facts up to 100 eg-Pairs of multiples of 10 eg. 30 + 70= 100 60 + ? = 100</p> <p>Derive all bonds to 100.</p> <p>Doubles of all numbers to 20 Doubles of multiples of 10 and 5 eg 40+40 or 35+35</p> <p>Half of even numbers to 20 Half of multiples of 10 eg half of 60= 30, 90=45</p> <p>Odd and even numbers to 100</p> <p><i>To know what to add to a number to reach the next multiple of 10 (e.g. 32+__=40)</i></p>	<p>Count in steps of 2, 3, and 5 from 0</p> <p>Count in tens from any number, forward or backward</p> <p>Read numbers to at least 100 in numerals and in words</p> <p>Compare and order numbers from 0 up to 100; use <, > and = signs</p> <p>Recognise the place value of each digit in a two-digit number (tens, ones)</p> <p>Count in halves eg $\frac{1}{2}$, 1, $1\frac{1}{2}$, 2, $2\frac{1}{2}$...</p> <p>Round to nearest 10</p>	<p>Add numbers mentally, including:</p> <ul style="list-style-type: none"> - a two-digit number and ones eg. 27 + 6 - a two-digit number and tens eg 36 +20 - two two-digit numbers - adding three one-digit numbers - Add near multiple of 10 eg 9,19.. 11, 21.. 	<p>Subtract numbers mentally, including:</p> <ul style="list-style-type: none"> - a two-digit number and ones eg. 27 - 6 - a two-digit number and tens eg 36 -20 - two two-digit numbers (crossing 10s boundaries) 	<p>Recall and use multiplication facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</p> <p>Show that multiplication of two numbers can be done in any order (commutative)</p> <p>Multiply single digit by x10 and use zero as a place holder</p>	<p>Recall and use division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</p> <p>Divide any multiple of 10 by 10</p>

(Non-italic NC assessed objectives 2014)

YEAR 3

RAPID RECALL	COUNTING	ADD	SUBTRACT	MULTIPLY	DIVIDE
<p>Recall of all bonds to 100 (multiples of 5 and 10)</p> <p>Double of all numbers to at least 20 and related halves. Eg half of 5 is 2.5</p>	<p>Count from 0 in multiples of 2, 3, <u>4</u>, 5, <u>8</u>, 10, <u>50</u> and <u>100</u></p> <p>Read and write numbers to 1000 in numerals and in words</p> <p>Compare and order numbers up to 1000</p> <p>Find 10 or 100 more or less than a given number</p> <p>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)</p> <p>Round to the nearest 10, 100</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</p>	<p>Add numbers mentally, including:</p> <ul style="list-style-type: none"> - a three-digit number and ones eg $327 + 8$ - a three-digit number and tens $428 + 40$ - a three-digit number and hundreds $368 + 200$ 	<p>Subtract numbers mentally, including:</p> <ul style="list-style-type: none"> - a three-digit number and ones eg $327 - 8$ - a three-digit number and tens $428 - 40$ - a three-digit number and hundreds $368 - 200$ 	<p>Recall and use multiplication facts for the 2, <u>3</u>, <u>4</u>, 5, <u>8</u> and 10 multiplication tables</p> <p>Multiply 2 digit numbers by $\times 10$ and $\times 100$ using zero as a place holder</p> <p>Multiplying a single digit number by a multiple of 10 eg 7×30;</p>	<p>Recall and use multiplication and division facts for the 2, <u>3</u>, <u>4</u>, 5, <u>8</u> and 10 and 10 multiplication tables</p> <p>Divide any multiple of 10 by 10 eg $30 \div 10$</p> <p>Divide any multiple of 100 by 10 or 100 eg $2400 \div 100$</p> <p>Give $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{3}$ of any 2 digit number</p>

(Non-italic NC assessed objectives 2014)

YEAR 4

RAPID RECALL	COUNTING	ADD	SUBTRACT	MULTIPLY	DIVIDE
<p>Recall multiplication and division facts for multiplication tables up to 12×12</p> <p><i>Halve and double all numbers to 100</i></p>	<p>Count in multiples of 6, 7, 9, 25 and 1000</p> <p>Order and compare numbers beyond 1000</p> <p>Find 1000 more or less than a given number</p> <p>Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones)</p> <p>Round any number to the nearest 10, 100 or 1000</p> <p>Count backwards through zero to include negative numbers</p> <p>Count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten</p> <p>Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$</p> <p>Recognise and write decimal equivalents of any number of tenths or hundredths</p> <p>Round decimals with one decimal place to the nearest whole number</p> <p>Compare numbers with the same number of decimal places up to two decimal places</p>	<p>Add and subtract fractions with the same denominator</p> <p><i>Know pairs of fractions that total 1.</i></p> <p><i>Work out what must be added to any three digit number to make the next multiple of 100 (e.g. $521 + \underline{\quad} = 600$)</i></p>	<p>Estimate and use inverse operations to check answers to a calculation</p>	<p>Recall multiplication facts for multiplication tables up to 12×12</p> <p>Use place value, known and derived facts to multiply mentally, including: multiplying by 0 and 1;</p> <p>Multiply multiples of 10 by multiples of 10 eg 60×20</p> <p>Multiplying together three numbers eg $3 \times 4 \times 5$</p> <p>Recognise and use factor pairs and commutativity in mental calculations</p>	<p>Recall division facts for multiplication tables up to 12×12</p> <p>Estimate and use inverse operations to check answers to a calculation</p> <p>Use place value, known and derived facts to divide mentally, including: dividing by 1;</p> <p>Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths</p>

YEAR 5

RAPID RECALL	COUNTING	ADD	SUBTRACT	MULTIPLY	DIVIDE
<p>Identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers</p> <p>Establish whether a number up to 100 is prime and recall prime numbers up to 19</p> <p>Recall square numbers and cube numbers to 12</p> <p><i>Double and halve numbers up to 1000</i></p> <p><i>To know number bonds to 1000 in multiples of 5 or 10.</i></p>	<p>Count forwards or backwards in steps of powers of 10 for any given number up to 1000000</p> <p>Read, write, order and compare numbers to at least 1 000 000</p> <p>Determine the value of each digit in numbers up to 1 000 000</p> <p>Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</p> <p>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero</p> <p>Read and write decimal numbers as fractions [e.g.: 0.71 = 71/100]</p> <p>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</p> <p>Round decimals with two decimal places to the nearest whole number and to one decimal place</p> <p>Read, write, order and compare numbers with up to three decimal places</p> <p>Use mental rounding to estimate and check answers</p>	<p>Add numbers mentally with increasingly large numbers</p> <p>Add fractions with the same denominator and denominators that are multiples of the same number</p> <p><i>Know what to add to a decimal with units and tenths to make the next whole number (e.g. 7.2 + ___ = 8)</i></p> <p><i>Know what to add to a four digit number to make the next multiple of 1000 (e.g. 4087 + _____ = 5000)</i></p> <p><i>Know sums and differences of decimals (e.g. 6.5 + 2.7)</i></p>	<p>Subtract numbers mentally with increasingly large numbers</p> <p>Subtract fractions with the same denominator and denominators that are multiples of the same number</p> <p><i>Know sums and differences of decimals (e.g. 6.5 + 2.7)</i></p>	<p>Multiply numbers mentally drawing upon known facts</p> <p>Multiply whole numbers and those involving decimals by 10, 100 and 1000</p>	<p>Divide numbers mentally drawing upon known facts</p> <p>Divide whole numbers and those involving decimals by 10, 100 and 1000</p>

YEAR 6

RAPID RECALL	COUNTING	ADD	SUBTRACT	MULTIPLY	DIVIDE
<p>Identify common factors, common multiples and prime numbers</p> <p>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</p>	<p>Read, write, order and compare numbers up to 10 000 000</p> <p>Determine the value of each digit in numbers up to 10 000 000</p> <p>Round any whole number to a required degree of accuracy</p> <p>Use negative numbers in context, and calculate intervals across zero</p> <p>Compare and order fractions, including fractions >1</p> <p>Associate a fraction with division to calculate decimal fraction equivalents (e.g.: 0.375) for a simple fraction [e.g.: 3/8]</p> <p>Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places</p>	<p>Perform mental calculations, including with mixed operations and large numbers</p> <p>Add fractions with different denominators and mixed numbers, using the concept of equivalent fractions</p>	<p>Perform mental calculations, including with mixed operations and large numbers</p> <p>Subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</p>	<p>Perform mental calculations, including with mixed operations and large numbers</p> <p>Multiply numbers by 10, 100 and 1000 giving answers up to three decimal places</p> <p>Multiply one-digit numbers with up to two decimal places by whole numbers</p> <p><i>Multiply integers by 0.5 and 0.25, including mixed numbers.</i></p>	<p>Perform mental calculations, including with mixed operations and large numbers</p> <p>Divide numbers by 10, 100 and 1000 giving answers up to three decimal places</p> <p>Divide proper fractions by whole numbers [e.g.: $1/3 \div 2 = 1/6$]</p> <p><i>Divide integers by 0.5 and 0.25, including mixed numbers.</i></p>

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