



## Year 3 – Key Skills

COUNTING	<ul style="list-style-type: none"> <li>Count from 0 in multiples of 4, 8, 50 and 100;</li> <li>Find 10 or 100 more or less than a given number</li> <li>Count on/back in 10s, 100s from any two and three-digit number.</li> <li>Recognise two-digit <b>and three-digit</b> multiples of 2, 5, and 10 and three-digit multiples of 50 and 100.</li> </ul>
NUMBER BONDS	<ul style="list-style-type: none"> <li>Recall addition, subtraction facts for each number up to at least 20.</li> <li>Recall pairs that make 20.</li> <li>Recall pairs of multiples of 100 that make 1000.</li> <li>Recall pairs of multiples of 5 with a total of 100.</li> <li>Revision: bonds to 20. Within 1000, subtract any multiple of 100</li> </ul>
MENTAL CALCULATION	<ul style="list-style-type: none"> <li>add and subtract numbers mentally, including:               <ul style="list-style-type: none"> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and hundreds</li> </ul> </li> <li>adding three two-digit numbers</li> <li>Partition into tens and ones and recombine.</li> <li>Round up or down and adjust:               <ul style="list-style-type: none"> <li><math>127 + 49</math> (<math>127 + 50 - 1</math>)</li> <li>Or</li> <li><math>139 + 45</math> (<math>140 + 45 - 1</math>)</li> </ul> </li> <li>Add/subtract 1, 10, 100 to any whole number.</li> <li>Add/subtract 9, 19, 29... and 11, 21, 31...</li> <li>Put larger number first in order to count on.</li> <li>Identify near doubles.</li> <li>Understand that subtraction is the inverse of addition.</li> <li>Say a subtraction statement equivalent to an addition statement and vice versa.</li> <li>Find a small difference by counting up from the smaller number.</li> </ul>
MULTIPLICATION & DIVISION FACTS	<ul style="list-style-type: none"> <li>Recall multiplication facts up to <math>5 \times 5</math>.</li> <li>Recall multiplication facts in <math>\times 10</math> table and derive division facts.</li> <li>Recall multiplication facts in <math>\times 2</math> table and derive division facts.</li> <li>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</li> <li>Derive doubles of whole numbers to 15, corresponding halves.</li> <li>Derive doubles of whole numbers to 20, corresponding halves.</li> <li>Derive doubles of multiples of 5 to 50.</li> <li>Derive doubles of multiples of 50 to 500.</li> <li>Understand multiplication as repeated addition and as an array.</li> <li>To multiply by 10/100, shift the digits one / two places to the left.</li> <li>Begin to find remainders after division.</li> </ul>
INVERSE OPERATIONS & ESTIMATING	<ul style="list-style-type: none"> <li><i>estimate the answer to a calculation and use inverse operations to check answers</i></li> <li>Check multiplication in a different order.</li> </ul>
EQUATIONS	<ul style="list-style-type: none"> <li>Solve problems, <i>including <b>missing number</b> problems, using number facts, place value, and more complex addition and subtraction.</i></li> </ul>

SEQUENCES	<ul style="list-style-type: none"> <li>Completing number and shape patterns.</li> <li>Create and describe simple number sequences.</li> <li>Finding all the possible sequences.</li> <li>e.g: RTR, TRR...</li> </ul>
COUNTING IN FRACTIONAL STEPS	<ul style="list-style-type: none"> <li>count up and down in tenths</li> </ul>
RECOGNISING FRACTIONS	<ul style="list-style-type: none"> <li>recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</li> <li>Recognise unit fractions <math>\frac{1}{2}</math>, <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{1}{5}</math>, <math>\frac{1}{10}</math>, and use them to find fractions of shapes and numbers.</li> <li>Begin to recognise fractions that are several parts of a whole <math>\frac{2}{3}</math>, <math>\frac{3}{4}</math>, <math>\frac{3}{10}</math>. Know that <math>\frac{1}{2}</math> lies between <math>\frac{1}{4}</math> and <math>\frac{3}{4}</math>.</li> </ul>
COMPARING DECIMALS	<ul style="list-style-type: none"> <li>Ordering decimals</li> </ul>
ROUNDING INCLUDING DECIMALS	<ul style="list-style-type: none"> <li>Rounding whole numbers to the nearest 10, 100, 1000</li> <li>Rounding decimals to the nearest 1 decimal place.</li> </ul>
EQUIVALENCE	<ul style="list-style-type: none"> <li>recognise and show, using diagrams, equivalent fractions with small denominators</li> <li>Begin to recognise simple equivalent fractions, e.g. <math>\frac{5}{10}</math> is equivalent to <math>\frac{1}{2}</math>, <math>\frac{5}{5}</math> to 1 whole.</li> </ul>
ADDITION & SUBTRACTION OF FRACTIONS	<ul style="list-style-type: none"> <li>add and subtract fractions with the same denominator within one whole (e.g. <math>\frac{5}{7} + \frac{1}{7} =</math>)</li> </ul>
MEASURING & CALCULATING	<ul style="list-style-type: none"> <li>measure, compare, add and subtract: <b>lengths</b> (m/cm/mm);</li> <li>Use ruler to draw and measure lines to nearest half cm.</li> <li>Measure and compare using m, cm. Know relationship m, cm; km, m.</li> <li>Use decimal notation for m and cm.</li> <li>Read scales and dials.</li> <li>Identify unlabelled divisions on a number line or measuring scale.</li> <li>Record to nearest whole / half unit, or as mixed units (e.g. 3 m 20 cm).</li> <li><b>mass</b> (kg/g);</li> <li>Read and begin to write the vocabulary related to mass.</li> <li>Measure and compare using kilograms and grams, and know the relationship between them.</li> <li>Read scales.</li> <li><b>volume/capacity</b> (l/ml)</li> <li>Read scales to the nearest division.</li> <li>Add and subtract amounts of <b>money</b> to give change, using both £ and p</li> <li>Recognise all coins and notes.</li> <li>Find totals, give change and work out how to pay.</li> </ul>
CONVERTING TIME	<ul style="list-style-type: none"> <li>Know the number of seconds in a minute and the number of days in each month, year and leap year</li> <li>Reading analogue times o 'clock, half past and quarter past and to</li> </ul>