# Year 4 – Key Skills

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| COUNTING | • Count backwards through zero to include negative numbers<br>• Count in multiples of 6, 7, 9, 25 and 1 000<br>• Count on or back in 10s, 100s from any 2- or 3-digit number.<br>• Count on or back in repeated steps of 1, 100, 1000.<br>• Count up through next multiple of 10, 100, 1000.<br>• Find 1 000 more or less than a given number |
| READING & WRITING NUMBERS | • Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.<br>• Read and write whole numbers up to 10 000, in figures and in words. |
| ROUNDING | • Round any number to the nearest 10, 100 or 1 000<br>• Round any three-digit number to the nearest 10 or 100.<br>• Round any positive number less than 1000 to nearest 10. |
| NUMBER BONDS | • Add strings of 4 numbers. Within 1000, addition of multiples of 10 and 100.<br>• Recall addition and subtraction facts for each number up to 20.<br>• Derive addition pairs that total 100, multiples of 50 that total 1000. |
| MENTAL CALCULATION | • Add and subtract numbers mentally, including:<br>• a four-digit number and ones<br>• a four-digit number and tens<br>• a four-digit number and hundreds<br>• adding four 3-digit numbers<br>• Add/subtract 1, 10, 100 to any whole number.<br>• Add/subtract 10, 100 1000 from any two-/three-digit number.<br>• Add several small numbers by finding pairs that total 10, or 9 or 11.<br>• Partition into tens and units, adding tens first.<br>• Add three 2-digit multiples of 10<br>• Understand principle (not name) of commutative law for + not –.<br>• Round up or down and adjust:<br>• 2999 + 1999 (3000 + 2000 – 2)<br>• Derive doubles of whole numbers to 50, corresponding halves.<br>• Derive doubles of multiples of 10 to 500, corresponding halves.<br>• Derive doubles of multiples of 100 to 5000, corresponding halves.<br>• Multiply or divide whole numbers by 10 or 100. |
| MULTIPLICATION & DIVISION FACTS | • Recall multiplication and division facts for multiplication tables up to 12 × 12<br>• Recall multiplication facts in x2, x3, x4, x5, x10 tables and derive division facts.<br>• Use closely related facts, e.g. derive x9 or x11 from x10, or derive x6 from x4 plus x2.<br>• Partition and multiply. Multiply by partitioning, e.g. 23 x 4. |
| SEQUENCES | • Recognise, extend number sequences formed by counting from any number in steps of constant size, extend beyond zero if counting back. |
| COUNTING IN FRACTIONAL STEPS | • Count up and down in hundredths<br>• Revisit counting in tenths |
| COMPARING | • Compare and order unit fractions 1/3, ¼ and 1/2, and fractions with the |

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| FRACTIONS | same denominators<br>• Relate fractions to division and find simple fractions of quantities.<br>• Compare a fraction with one half, and say whether it is greater or less. |
| COMPARING DECIMALS | • Compare numbers with the same number of decimal places up to two decimal places<br>• Use decimal notation for tenths, hundredths (money, metres and centimetres) and use in context.<br>• Order decimals with two places. |
| ROUNDING INCLUDING DECIMALS | • Round decimals with one decimal place to the nearest whole number<br>• Round to the nearest £ or metre.<br>• Convert £ to p, or metres to centimetres, and vice versa. |
| EQUIVALENCE | • Recognise and write decimal equivalents of any number of tenths or hundredths<br>• recognise and write decimal equivalents to $^{1}/_{4}$; $^{1}/_{2}$; $^{3}/_{4}$<br>• Begin to use ideas of simple proportion. |
| ADDITION & SUBTRACTION OF FRACTIONS | • Add and subtract fractions with the same denominator<br>• Identify two fractions with total of 1. |
| MEASURING & CALCULATING | • Convert £ to p. Choose appropriate number operations and calculation methods to solve money or 'real life' word problems with one/two steps.<br><br>**Length:**<br>• Use, read, write km, m, cm, mm and mile.<br>• Know and use relationships between units.<br>• Know 1/2, 1/4, 3/4, 1/10 of 1 kilometre in m, 1 metre in cm or mm.<br><br>**Mass:**<br>• Measure and compare using kilograms and grams, and know and use the relationship between them. Know 1/4, 1/2, 3/4 and 1/10 of 1 kg in grams.<br>• Record measurements to suitable degree of accuracy, using mixed units, or the nearest whole/half/quarter unit (e.g. 3.25 kg).<br><br>• **Capacity:**<br>• Use, read, write litre (l), millilitre (ml), pint.<br>• Know 1/4, 1/2, 3/4, 1/10 of 1 litre in ml.<br><br>• Read a variety of scales and dials to a suitable degree of accuracy.<br>• measure and calculate the **perimeter** of a rectilinear figure and simple shapes (including squares) in centimetres and metres<br>• find the area of rectilinear shapes by counting squares<br>• Measure and calculate area of rectangles and simple shapes, using counting methods and standard units (square centimetres). |