## Multiplication KS1

| EYFS | Reception: ELG 2021 <br> - Have an understanding of number to 10 , linking names of numbers, numerals, their value, and their position in the counting order. <br> - Subitise (recognise quantities without counting) up to 5. <br> - Automatically recall number bonds for numbers 0-5 and for 10 , including corresponding partitioning facts. <br> - Automatically recall double facts up $5+5$ <br> - Compare sets of objects up to 10 in different contexts, considering size and difference <br> - Explore patterns of numbers within numbers up to 10 , including evens and odds. |  |  |  |
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| Year |  |  |  | 2 |
| Layers of vocabulary <br> Appendix 1a <br> Beck's Tiers <br> of <br> Vocabulary <br> Appendix <br> 1b: <br> Vocabulary book | Basic to subject specific (Beck's Tiers): <br> count in ones, twos... tens... <br> array, groups of, equal groups <br> odd, even <br> Instructional vocabulary: <br> carry on, continue repeat what comes next? <br> find, choose, collect <br> use, make, build <br> tell me, describe, pick out, talk about, explain, show me, read, write, record <br> NFER Arithmetic |  | Instructional vocabulary: <br> carry on, continue, repeat, what comes next? predict describe the pattern describe the rule find, find all, find different, investigate <br> NFER Arithmetic |  |
| NC 2014 | Solve one-step problems involv calculating the answer using co representations and arrays with | multiplication and division, by rete objects, pictorial he support of the teacher. | Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( x ), division ( $\div$ ) and equals (=) signs. |  |
|  | Concrete, pictorial, abstract |  | Concrete, pictorial, abstract |  |
| Developing declarative, procedural, and conditional knowledge |  | Arrays <br> (rectangular arrangements to show equal groups) | Repeated addition and skip counting <br> Introduce the x symbol once repeated addition is understood. |  |

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|  | Doubles |  |  | Complete $\begin{aligned} & 6,8,10, \ldots . . . . . . . . . . . ~ \\ & 20 \\ & 15,20,25 . . . . . . . . . . . . . ~ \\ & 60 \\ & 60,70,80 . . . . . . . . ~ \\ & 100 \end{aligned}$ <br> 5 frogs on each lily pad $5 \times 3=15$ <br> Building tables <br> Build tables using counting stick- forwards and backwards and with missing jumps using doubling and halving. | Conditional K How many nu describe this <br> Explain your <br> 6. Write a s $6 \times 10=60$ <br> 7. Complete $7 \times 5=$ $\square$ | 6 hops of 5 <br> vedge <br> r sentences can you write to y? Can you use addition, division? <br> vers. <br> go with this equation. <br> calculations. <br> $10 \times 4=$ $9 \times 2=$ $\square$ |
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| Known facts | Count in multiples of twos, | nd tens. |  | Recall and use x and $\div$ facts for the 2,5 and even numbers. | $\text { d } 10 \times \text { tables, }$ | cluding recognising odd and |
| Essential | Count in 2s |  | Doubles up to 10 | $2 \times$ table |  | Doubles up to 20 |
| Knowledge | Count in 10s |  | Double multiples of 10 | $10 \times$ table |  | Doubles of multiples of 5 |
|  | Count in 5s |  | Count in $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10s | 5 x table |  | Count in 3s |

