## Multiplication KS2

| EYFS | Reception: ELG 2018 <br> 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, halving and sharing. <br> Exceeding: <br> Estimation and checking quantities by counting up to 20 <br> Combining groups of $\mathbf{2 , 5}$ or $\mathbf{1 0}$ or sharing into equal groups |  |  |  |
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| Year | 1 |  |  | 2 |
| Layers of vocabulary <br> Appendix 1a <br> Beck's Tiers 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 |  | Basic to subject specific (Beck's Tiers): <br> lots of, groups of $x$, times, multiply, multiplied by multiple of once, twice, three times... ten times... times as (big, long, wide... and so on) repeated addition array row, column double, halve share, share equally <br> Instructional vocabulary: <br> carry on, continue, repeat, what comes next? predict describe the pattern describe the rule <br> find, find all, find different, investigate |  |
| NC 2014 | 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. |  | 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 Conceptual/ Procedural Understanding | 2 frogs on each lily pad <br> GROUPING ITP <br> Pictures to show 2 groups of 3 or 3 groups of 2 etc. | Arrays <br> (rectangular arrangements to show equal groups) | Introduce the $\times$ symbol once repeated addition is understood. | Commutativity <br> $5 \times 2=2 \times 5$ |

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|  | Doubles |  | Grouping <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 | Decision makin <br> How many num describe this ar multiplication a <br> Explain your an | my am myam myan $\begin{aligned} & 5+5+5+5+5+5=30 \\ & 5 \times 6=30 \\ & 5 \text { multiplied by } 6 \\ & 6 \text { groups of } 5 \\ & 6 \text { hops of } 5 \end{aligned}$ <br> sentences can you write to ？Can you use addition， division？ <br> ers． |
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| Known facts | Count in multiples of twos，fives and tens． |  | Recall and use x and $\div$ facts for the 2,5 and even numbers． | $10 \times \text { tables, } \mathrm{i}$ | luding recognising odd and |
| Essential Knowledge | Count in 2 s | Doubles up to 10 | $2 \times$ table |  | Doubles up to 20 |
|  | Count in 10s | Double multiples of 10 | $10 \times$ table |  | Doubles of multiples of 5 |
|  | Count in 5 s | Count in $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10s | 5 x table |  | Count in 3s |

