## Buckingham Primary Academy

## believe persevere Achieve

Outline of expectations term by term. The National Curriculum expectation for Primary Schools across the UK is that, by
the end of Year 4, pupils can recall all 12 times tables up to $12 \times 12$. This resource map was created to provide teachers with a schema for how to ensure that all pupils are capable of this by Year 4 .

## Process of teaching times table and division facts:

Each half-term teachers will have a new fact to focus on and teach. Staff will need to use the first week to support with the teaching of the facts.

1) Introduce new learning and division facts to children (no more than 10 minutes). This process will last for one week

Ideas to think about-

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Immersion lesson - what comes in group of \
about the times table?
Concrete resources lessons e.g. Numicon, Cuisenaire Rods,
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2) Use the 5 minutes before class begins after lunchtime to complete carousel learning based on your timetable fact. Staff to ensure this is set up and competed daily
3) Staff to use carousel learning to support with gaps in knowledge and amend where required.


| Year <br> group | EYFS (FS2) | Year 1 | Year 2 | ar 3 | Year 4 | ear 5 | Yar 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EYFS | Nursery Rhymes (Focusing on numbers to 5) Five Little Speckled Frogs Five Currant Buns Five Little Ducks Hickory Dickory Dock | Count in 2's up to 24 , linking with even numbers and supporting doubles. Count in multiples of 10 in order up to 120. | Consolidate counting in steps of 2, 5 and 10 in order from 0 up to 12x. <br> Children to work on spotting pattens of doubling (1x) to (2x) | Count and use knowledge of $2 \times$ table to teach 4 x tables. <br> Children to spot patterns of doubling. <br> Children to be able to recall number facts of the 4 x tables and division facts. | Introduce the 9x tables to children. <br> Children to be able to recall and identify the $9 x$ table both the multiplication and division facts. | Complete an assessment using carousel learning and identify and gaps. <br> Recall multiples of 12 in any order, including missing numbers and related division facts fluently Recall multiples of all times tables up to $12 \times 12$ in any order, including missing numbers and related division facts with growing fluency. | Complete an assessment using carousel learning and identify and gaps. <br> Expectation is that all children are able to recall all multiplication and division facts up to $12 \times 12$ |
| Autumn 2 | Nursery <br> Rhymes (Focusing on numbers | Count in 2's up to 24, linking with even numbers and supporting doubles. Count in multiples of 10 in order up to 120. | Count in steps of 2 from any given number and be able to begin writing the answers down. <br> Recall multiples of 2 fluently and begin to identify missing numbers. | From introducing the $4 x$ table teacher to then focus on the related facts of $8 x$ table and again teach the process of doubling. <br> Children to the recall the $8 x$ table facts. | Introduce the 7x table- <br> Teacher to teach and support children's understanding of the 7 -x table so children can confidently recall both the multiplication and division facts up to 12 x . | Squared and cubed number focus <br> Use carousel learning to support with assessment and gaps. | Revision of facts and a focus on extending this to known facts to support with the arithmetic preparations. |


|  | to 5 and 10) Ten Green <br> Bottles <br> 1, 2, 3, 4, <br> 5 Once 1 <br> Caught A Fish Alive <br> Ten Fat <br> Sausages <br> Ten Little |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Spring 1 | Count from 0-10 (from any given number). Recall Number Bonds to 5. | Focus on counting in multiples of 5 up to 60, linking with knowledge of counting in 10 s . Continue to develop fluency of counting in 2's and 10's. | Count in steps of 5 up to $12 \times 5$ and the division facts also. Children to identify the missing numbers and begin to spot the pattens. <br> Complete a retrieval task once a week on 2 - and 5 -times table to recap knowledge | Introduce and teach the $3 x$ table to the class. <br> Identify the related number facts of the multiplication and division facts. | Introduce the 11x table- <br> Teacher to teach and support children's understanding of the 11 x table so children can confidently recall both the multiplication and division facts up to 12 x . | Children to confidently recall all facts both multiplication and division to be completed daily | Assessment on carousel learning to determine gaps and put effective support and measures into place. <br> Mixed multiplication and division used up to $12 x$ to ensure children can confidently recall |
| Spring 2 | Count <br> forwards <br> and <br> backwards <br> $0-10$. <br>  <br>  <br> Recall <br> Number <br> Bonds to <br> 5. | Focus on counting in multiples of 5 up to 60 , linking with knowledge of counting in 10 s . <br> Continue to develop fluency of counting in 2's and 10's. | Children to begin focusing on their $10 \times$ tables and look at spotting patterns of doubling and halving from $5 \times$ tables. <br> Children to be able to recall multiples of 10 and spot any missing numbers. Children to also be able to talk about related division facts | Children to be able to spot patterns and use the $3 x$ table to support with the $6 x$ tables. <br> Children to be able to recall the facts from $0 x$ to $12 x$. <br> Children to also identify missing numbers. | Focus on square numbers with pupils. <br> Children being able to identify the square numbers and be able to confidently explain what a squared number is. | Children to begin extending their knowledge to known facts and using their multiplication and division facts to support. | Squared, cubed and prime numbers to be a focus and for children to be able to confidently talk about these. |
| Summer 1 | Count from 0-20 (from any given number) Begin to count forwards and backwards $0-20$. | Count in multiples of 10,2 and 5 in order with growing fluency. | Children to recap on knowledge of $2 x, 5 x$ and $10 x$ tables and be able to recall facts both multiplication and division. <br> Teacher to support with $0 x$ and what this means to support with misconceptions. | Children to use their knowledge of the 6 x table to support with the teaching of the 12x table. <br> Children to be able to recall the multiplication and division facts of the 12 x tables. | Revision of all facts <br> Children to confidently be able to recall all. | Known facts to continue | Revision and revisit the times tables to ensure confidence. |
| Summer 2 | Begin to explore counting in 2s and 10s. <br> Recall Number Bonds to 5 and 10. | Count in multiples of 10,2 and 5 in order fluently. | Be able to confidently count and recall multiplication and division facts of 2 's, 5 's and 10 tables. | Revision of $2,3,4,5,6,8$ and 12 | Revision of all facts <br> Children to confidently be able to recall all. | Assessment on carousel learning and use of arithmetic test to inform next teach. | Revision of all facts <br> Children to confidently be able to recall all. |
| Accuracy |  | Children being able to count in 2's to 24 and recognise what number come's next/before | Children knowing the order of the times tables for their strand knowing what comes before/after. Inverse operations. | Children knowing the order of the times tables for their strand knowing what comes before/after. Inverse operations. | Children knowing the order of the times tables for their strand knowing what comes before/after. Inverse operations. | Children knowing the order of the times tables for their strand knowing what comes before/after. Inverse operations. | Children knowing the order of the times tables for their strand knowing what comes before/after. Inverse operations. |



The National Curriculum expectation is that by the end of Year 4, children are able to recall all 12 tables up to $12 \times 12$
To secure this, we recommended that the first term of Year 5 be used to consolidate by continuing your practice. It is also an opportunity for teachers to carryout and use assessment to think about the next steps of learning and building on prior knowledge.

As children progress throughout year 5 and 6 opportunities to extend knowledge further have been put into place through squared, cubed and prime numbers and using know facts to support with arithmetic style questions.

If you find that your children are working below the structure outlined in this document, we recommend tracking back to where your children are.

## Ideas and ways to teach multiplication-

|  | The three times |  |
| :---: | :---: | :---: |
| 1×3 $=$ | B | 3 |
| $2 \times 3=$ | 如 | 6 |
| $3 \times 3=$ | 888 | , |
| $4 \times 3=$ | \$9888 | ${ }^{12}$ |
| $5 \times 3=$ | \% $\%$ \%88\% | ${ }^{15}$ |
| $6 \times 3=$ | \%月888\#8 | 18 |
| $7 \times 3=$ | \%88888888 | 21 |
| $8 \times 3=$ |  | 24 |



