## St.Peter's C.E. Primary School



## Multiplication Tables Policy 2020-2021

Updated: February 2020

To be reviewed: February 2021

## Multiplication Tables Policy

Times Tables are at the heart of mental arithmetic which in itself helps form the basis of a child's understanding and ability when working with number. Once the children have learnt the times tables and related divisions by heart, they are able to work far more confidently - and efficiently through a wide range of more advanced calculations. At St. Peter's, we believe that through a variety of interactive, visual, engaging and rote learning techniques, most children can achieve the full times tables knowledge required by the end of Year 4.

## Aims

1. To raise the profile of the teaching of times tables and to raise overall knowledge of the times tables and related division facts across the school.
2. To explain the expected practices, to ensure children learn their times tables.
3. To ensure continuity in practices and progression in times tables.
4. To ensure there is successful teaching and learning of times tables and related divisions within our school.
5. To develop our knowledge of language associated with times tables: 'times', 'lots of’, 'multiplied by', and 'group of', 'multiplier', 'multiplicand', 'product'.

| Step 1 | Order of introduction. | See below |
| :---: | :---: | :---: |
| Step 2 | Use of the concrete, pictorial, abstract approach | Before learning tables, children need to understand times tables in context - a variety of concrete and pictorial resources will be required to see grouping objects as repeated addition. Resources such as numicon, diennes, multi-link cubes, real objects to group and count, arrays of pictures and number link boards will be used. |
| Step 3 | Introducing new times tables | Use songs and rhymes to support the learning of times tables <br> - Percy Parker <br> - Number Fun |
|  | Introduce a new times table | We have learned the $2,3,4,5$ and 10 times tables. We already know some of the facts from the 8 times table. What are they? |
|  | by building it | Known facts Facts to learn |
|  | around known | $0 \times 8=8$ $6 \times 8=48$ |
|  | facts | $1 \times 8=8 \quad 7 \times 8=56$ |
|  |  | $2 \times 8=16 \quad 8 \times 8=64$ |
|  |  | $3 \times 8=24 \quad 9 \times 8=72$ |
|  |  | $4 \times 8=32 \quad 11 \times 8=88$ |
|  |  | $5 \times 8=40 \quad 12 \times 8=96$ |
|  |  | $10 \times 8=80$ |
|  | Commutative | Awareness and understanding of commutative law$6 \times 4=24 \quad 4 \times 6=24$ |
|  |  |  |
|  | Language | Always use language associated with times tables: 'times', 'lots of', 'multiplied by', and 'group of', 'multiplier', 'multiplicand', 'product'. |


| Step 4 | Opportunities to practise times tablesmultiplication and division facts. | Tables to be practised at the start of every maths lesson |
| :---: | :---: | :---: |
|  | Opportunities to practise times tablesmultiplication and division facts. | - Times table sheets-sent home weekly <br> - Times table sheets-practised in class weekly <br> - Times Table Rock Stars (tables to be set by class teacher) <br> - Hit the Button |
|  | Opportunities to practise times tablesmultiplication and division facts. | - In order <br> - Out of order <br> - Product first <br> - In order <br> - Out of order <br> - Quotient first |
| Step 5 | Explore patterns in times tables. | Ensure children engage with 'rich' tasks/investigations linked to times tables which encourage deeper learning, greater levels of reasoning, links to be made and patterns to be discovered. |
| Step 6 | Application | Provide opportunities for pupils to apply their knowledge |

## Order of introduction

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Count <br> in 2s, <br> $5 \mathrm{~s}, 10 \mathrm{~s}$ | Count in 3s | Count in 3s, 4, <br> $8 \mathrm{~s}, 50 \mathrm{~s}$ and <br> 100 s | Count in 6s, 7s, <br> $9 \mathrm{~s}, 12 \mathrm{~s} \mathrm{25s}$ | Continue to <br> revise <br> multiplication <br> tables up to 12 <br> X 12 | Continue to <br> revise <br> multiplication <br> tables up to 12 X <br> 12 |
|  | Multiplication <br> and division <br> facts for 2,5 <br> and 10 | Multiplication <br> and division <br> facts for 3, 4 <br> and 8 | Multiplication <br> and division <br> facts for 6,7,9, <br> 11 and 12 | Recognise and <br> use square <br> numbers and <br> cube numbers <br> and the <br> notation for <br> square and <br> cubed. | Continue to <br> recognise and <br> use square <br> numbers and <br> cube numbers <br> and the notation <br> for square and <br> cubed. |

## We recommend using the following apps and websites:

- TT Rockstars (all children in Year 2-6 have a log in) https://ttrockstars.com/
- Hit the Button https://www.topmarks.co.uk/maths-games/hit-the-button
- IXL maths (all children in Year 1-6 have a log in) https://uk.ixl.com

1John 3:18 Dear children, let us not love with words or speech but with actions and in truth

