

# **Sutton C of E (VC) Primary School**



## **Times Table Policy November 2020**

## Introduction

Times tables form a valuable foundation of understanding in both mental arithmetic and are at the base of many other mathematical concepts. When children have learnt and retained their times tables, they are able to apply this knowledge with a greater confidence to a variety of areas of Mathematics. Therefore, they will be able to extend their knowledge and understanding further. At Sutton, we believe in providing a variety of approaches including verbal, visual, interactive and rote learning as well as the use of technology to embed the full times table knowledge by the time the children enter Year 5.

## Aims

- To raise the profile of the teaching of times tables and to raise the overall knowledge of times table facts across the school
- To explain the expected practices, to ensure children learn their times tables
- To ensure continuity in practices and progression in times tables
- To ensure the successful times table teaching and learning at Sutton Primary.

## National Curriculum Expectations

Year 1	<ul style="list-style-type: none"><li>• Count in multiples of 2, 5 and 10.</li><li>• Recall and use all doubles to 10 and corresponding halves</li></ul>
Year 2	<ul style="list-style-type: none"><li>• Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.</li></ul>
Year 3	<ul style="list-style-type: none"><li>• Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</li></ul>
Year 4	<ul style="list-style-type: none"><li>• Recall and use multiplication and division facts for multiplication tables up to 12x12.</li></ul>
Year 5	<ul style="list-style-type: none"><li>• Revision of all times tables and division facts up to 12x12.</li></ul>
Year 6	<ul style="list-style-type: none"><li>• Revision of all times tables and division facts up to 12x12.</li></ul>

## Teaching Progression

<u>Foundation Stage and Key Stage 1</u>	<u>Key Stage 2</u>
<p><b><u>In Reception</u></b> I understand numbers up to 10 I understand numbers up to 20.</p> <p><b><u>In Year 1</u></b> I can count in multiples of 2. I can count in multiples of 5. I can count in multiples of 10.</p> <p><b><u>In Year 2</u></b> I can count in steps of 5 I know my 2 times table I know my 10 times table</p>	<p><b><u>In Year 3</u></b> I know my 6 times table I know my 8 times table I know my 11 times table</p> <p><b><u>In Year 4</u></b> I know my 9 times table I know my 7 times table I know my 12 times table</p> <p><b><u>In Year 5 and 6</u></b> Regular consolidation of all times tables</p>

## Teaching Times Tables

The teaching of times tables at Sutton is embedded within Maths lessons on a daily basis. It is vital in the children's learning that these skills are taught rather than the times tables being rehearsed and repeated. Opportunities are put into planning for the use of different strategies, approaches and techniques to help all children learn their times tables. It is expected that a minimum of a two minute times table starter is used to rehearse knowledge takes place in every lesson. There are a range of activities and strategies provided for teaching staff to use and are outlined below. These are saved directly on the school server and accessible for all members of staff.

It is an expectation that times tables are taught alongside problem solving and in real life contexts also in order to gain a further conceptual understanding as well as division facts for this same purpose.

Teaching strategies and activities	County Council Guide to teaching multiplication tables - <a href="https://drive.google.com/file/d/13mXqO1GHt7C8mhzqHWfrzTcfiz1n7oGp/view?usp=sharing">https://drive.google.com/file/d/13mXqO1GHt7C8mhzqHWfrzTcfiz1n7oGp/view?usp=sharing</a> Chanting Charts <a href="https://drive.google.com/file/d/1DR378fLF189_IzW_HvAhfe7mHynHmqTN/view?usp=sharing">https://drive.google.com/file/d/1DR378fLF189_IzW_HvAhfe7mHynHmqTN/view?usp=sharing</a> Top 10 Tips for teaching multiplication <a href="https://drive.google.com/file/d/1gkaobVX5vakLM6fjXIEq6yl-hqF3_F7a/view?usp=sharing">https://drive.google.com/file/d/1gkaobVX5vakLM6fjXIEq6yl-hqF3_F7a/view?usp=sharing</a> Using Numicon to Teach Times Tables <a href="https://drive.google.com/file/d/1-NeqWu3pRLCwxA5xB1I5P3qH8Ja3TWTf/view?usp=sharing">https://drive.google.com/file/d/1-NeqWu3pRLCwxA5xB1I5P3qH8Ja3TWTf/view?usp=sharing</a> NRich tables activities - <a href="https://nrich.maths.org/1252">https://nrich.maths.org/1252</a> Table Fact Triangles - <a href="https://drive.google.com/file/d/1o_08ch8B-K9srd2pK2KjkDUNEs0QeTd-/view?usp=sharing">https://drive.google.com/file/d/1o_08ch8B-K9srd2pK2KjkDUNEs0QeTd-/view?usp=sharing</a> NCETM Times Table Video - <a href="https://www.youtube.com/watch?v=aoUidm704PU">https://www.youtube.com/watch?v=aoUidm704PU</a> Chanting Rolling Numbers - <a href="https://drive.google.com/file/d/12gVQWRcl-yPOXZcdPOAotEmLdBst3tDI/view?usp=sharing">https://drive.google.com/file/d/12gVQWRcl-yPOXZcdPOAotEmLdBst3tDI/view?usp=sharing</a> Fizz Buzz
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## Differentiation

It is expected that children will be at varying stages in their times table journey. In KS1 it is very important that less confident children have extra support in developing an understanding of the concept of 'lots of' before moving on to rote learning of any times tables. If children are confident in the times tables allocated for their year group, they must be moved on to the times tables from the years above. If they have not yet achieved the target tables for their year groups, they must work of the tables for the year group below.

## **Home Learning**

Times tables are included in each half term's homework menu for children to choose from and take the form of different activities that are meant to encourage a more interactive and varied approach to learning times tables.

Times Table Rock Stars is a home learning tool to which all pupils from Year 1 to 6 have access. It is a carefully sequenced programme of daily times tables practice. Each week concentrates on a different times table, with a recommended consolidation week for rehearsing the tables that have recently been practised every third week or so. Teachers can access and set learning tasks for pupils and children are expected to be actively encouraged to access this platform from home.

Alternative online times tables practice has also been shared with parents and all teaching staff in the school as well in order to give children a wider range of resources to use.

Online times table games	Hit the button interactive game for times tables (Year 2+)- <a href="https://www.topmarks.co.uk/maths-games/hit-the-button">https://www.topmarks.co.uk/maths-games/hit-the-button</a> Bubble Pop (Year 1+) <a href="https://mathsframe.co.uk/en/resources/resource/245/Bubble-Pop-Multiplication">https://mathsframe.co.uk/en/resources/resource/245/Bubble-Pop-Multiplication</a> Maths Fishing Year 1-5 <a href="https://mathsframe.co.uk/en/resources/resource/306/Maths-Fishing-Multiplication">https://mathsframe.co.uk/en/resources/resource/306/Maths-Fishing-Multiplication</a> Arithmetic Practice (Key Stage 2) <a href="https://phet.colorado.edu/en/simulation/arithmetric">https://phet.colorado.edu/en/simulation/arithmetric</a>
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## **Application of Times Tables in Calculation**

Children's growing understanding of times tables are only relevant if they are aware of their application in calculations and real life. In order to do this, children should be using recall of times tables when needed in calculations. This awareness can be created in several ways

- Highlighting when times tables are being used during modelling
- Discussion of how they are being applied during problem solving
- Inclusion of real life examples of times table application
- Practicing times tables on a daily basis
- Marking that identifies where errors have been made, due to incorrect
- calculating

## **Testing**

In order to gain a better understanding of the children's attainment and retention of times tables, it is recommended that teachers regularly assess their class' knowledge of these facts. In Lower Key Stage 2, regular testing is encouraged with a view to prepare the children for the Year 4 Multiplication Tables Check. In Upper Key Stage 2, regular testing is also necessary in order to establish if these number facts have been retained as well as being a useful preparation for the Key Stage 2 SATs tests.

## **Displays**

Times tables should be on display in all classrooms, for children to use as support and reference – although these must be covered during the short weekly assessment session. In KS1 the 2, 5, 10, 3 & 4 times tables need to be displayed. In KS2 the 4-12 times tables need to be displayed. Teachers may display other times tables if they wish. The display must be large enough for all children to see throughout the room or availability of table top resources if the display is not accessible to all.