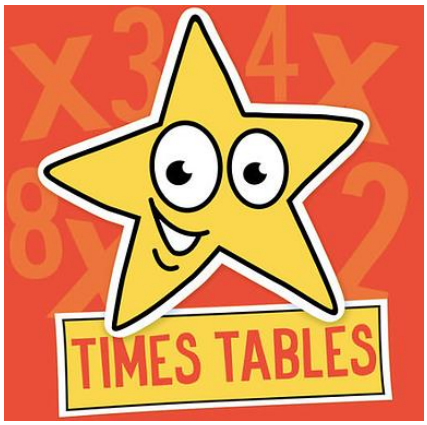
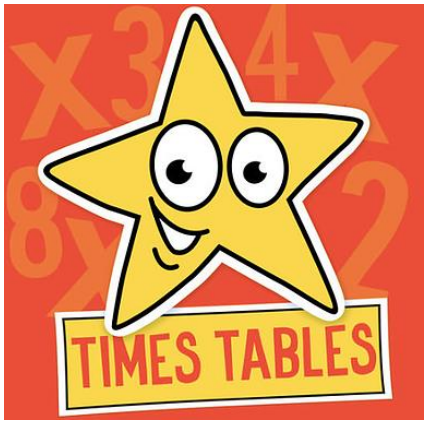
Year 4
Multiplication Tables Check Information





Multiplication Tables Check (MTC)

The **Multiplication Tables Check (MTC)** will be administered to children in Year 4 in the week beginning the 5th of June 2023.

The purpose of the MTC is to determine whether Year 4 pupils can recall their multiplication tables up to 12x12 fluently as outlined in the National Curriculum.

Year Group	Expectation
Year 1	Count in multiples of **2, 5 and 10**. Recall and use all **doubles to 10** and corresponding halves.
Year 2	Recall and use multiplication and division facts for the **2, 5 and 10** times tables including recognising **odd and even numbers**.
Year 3	Recall and use multiplication and division facts for the **3, 4 and 8** times tables.
Year 4	Recall and use multiplication and division facts for tables up to **12 x 12**
Year 5	Revision of all times tables and division facts up to **12 x 12**
Year 6	Revision of all times tables and division facts up to **12 x 12**

Children will be tested using a computer, where they will have to answer multiplication questions against a clock. The test will last no longer than 5 minutes; children will have 6 seconds to answer each question in a series of 25. There will be a focus on the more difficult times tables, including 6x 7x 8x and 12x.

A sound recall of times tables will form a strong foundation for all maths learning that follows especially in the lead up to Year 6 SATS.

There are many strategies and activities we can do with children to help them learn their tables.

The aim of this booklet is to show you some of the strategies we use in school and that you could try at home to help your child with their tables.

We hope you find it useful!



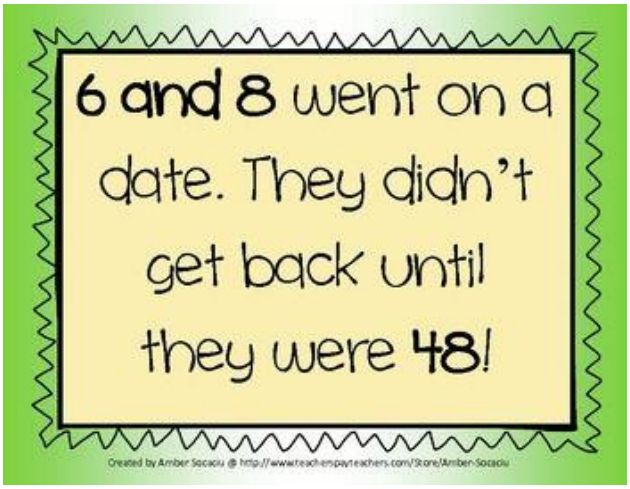
Rhyme Time!

Silly rhymes and songs can help children to remember these patterns, e.g. '0 2 4 6 8, my mum thinks I'm great' – the sillier the better really!

3x3=9	Swing from tree to tree on a vine, three times three is nine.
7x7=49	Seven times seven is like a rhyme, it all adds up to 49.
8x8=64	He ate and ate and was sick on the floor, eight times eight is 64.

You can:

- See if, together, you can think of a silly rhyme to go with the first few numbers in each table: **'5, 10, 15, 20 ...'**



One Less Equals Nine!



This is a strategy for learning the 9 x tables. The key to it is that for any answer in the nine times table, both digits add up to 9. Try it and see!

1. Subtract 1 from the number you are multiplying by. E.g. 7x9, one less than 7 is 6.
2. This number becomes the first number in the answer. 7x9=6__
3. The two numbers in the answer add up to 9 so the second number must be 3. 7x9=63

You can:

- Investigate this theory with your child by exploring this rule and finding more patterns. This will familiarise your child with the 9 times tables.

Bingo!



This game will need 2 players!

Make a grid of six squares on a piece of paper and ask your child to write a number in each square from the target tables. Give them a question and if they have the answer, they mark them off. First one to mark off all their numbers is the winner!

You can:

- Turn this into a family game and include a reasonable reward/incentive to entice your child.

Number Squares

When numbers are placed in a number square, highlighted times tables make a visual pattern. Some children find these very visual patterns help them to remember the table.

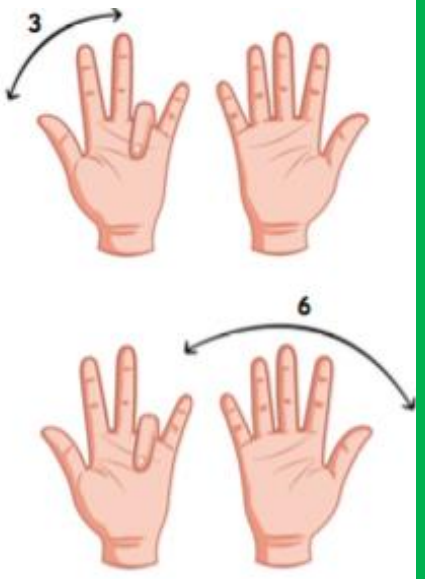
Here is a number square with the 3 times table highlighted.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

You can:

- Print the 3 times table number square and stick it somewhere in your house, where your child will find it easy to read for a few minutes a day. Encourage them to read to 12 × 3 a few times and then close their eyes and see how much they can recall.
- Print off a plain number square to explore. With your child, choose a times table for them to highlight with a coloured pencil or highlighter pen. See if they can see a pattern appearing. Now practise the times table as above.

9 Times Tables on your Fingers!



1. Hold your hands in front of you with your fingers spread out.
2. For 9 x 4 bend your 4th finger down (like the picture).
3. You have 3 fingers in front of the bent finger and 6 after the bent finger. Thus the answer must be 36!
4. The technique works for the 9 times table up to 10.

You can:

- Explore with your child which method helps them most with the 9 times table – the more physical hand trick, or the more visual exploration of number patterns.

Useful Websites

1. **Times Table Rock Star**
   https://play.ttrockstars.com
   TTRS is used in school on a daily basis but can be practised at home on a computer or tablet.

2. **Maths Frame Multiplication Tables Check**
   https://mathsframe.co.uk/en/resources/resource/477/Multiplication-Tables-Check
   Timed tests that mirror the multiplication tables check.

3. **Timestables.co.uk**
   https://www.timestables.co.uk/6-times-table.html
   A range of practice activities and tests for specific times tables.

4. **Topmarks.co.uk**
   https://www.topmarks.co.uk/maths-games/7-11-years/times-tables
   Various games that can be adjusted to specific times tables – Hit the Button and Daily 10.

5. **Tablestest.com**
   https://tablestest.com/
   Multiplication grid test that records the time taken for each question.

6. **Transum.org**
   https://www.transum.org/Tables/Square.asp
   Multiplication square practice, similar to what has been used in class (Y4).

Engaging Apps

1. **Times Table Game**
   David Van Bergen
   Various questions that can be targeted for each times table.

2. **10 Minutes a Day Times Tables**
   Dorling Kindersley
   Game that records time taken and scores each time you enter a times table race.

3. **Math for Kids**
   Angelico
   Multiplication squares and a range of questions.

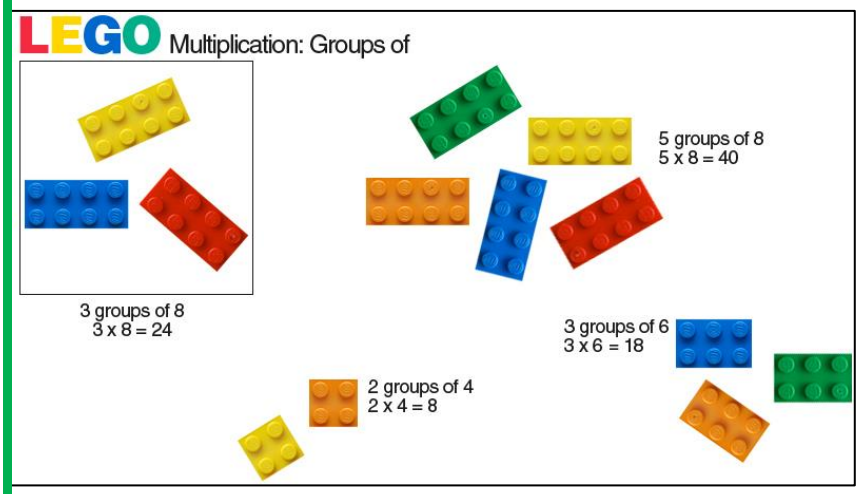
4. **Quick Maths**
   Shiny Things (99p in app purchase)
   Fast paced tests that record the times taken over a period of time.

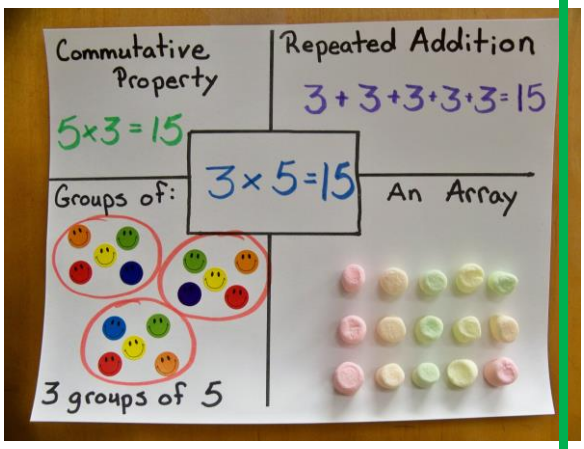
5. **Learn Multiplication to Kids**
   Mohamed Elwan
   Covers all the times tables and gives instant feedback



Concrete Pictorial & Abstract Approach (CPA)

Use of physical resources and creation of pictorial images, before understanding the abstract patterns of times tables, is extremely valuable. Multiplication has a strong presence in our day-to-day life. Look for opportunities to use the times tables when problem-solving when shopping or using recipes. In order for maths experiences to be effective, children need to be able to work with and understand practical applications.







You can:

- Organise a multiplication array hunt. Exploration of arrays will increase your child's understanding of multiplication.