

## Multiplication Tables

### Why are times Tables important?

You would be amazed at how much of our maths at school and in real life is based on tables. In June, Year 4 children will complete a Multiplication Skills Check testing their quick recall of all (up to  $12 \times 12$ ) tables.

### Use a multiplication square

To use a multiplication square, choose a number from the first column and a number from the first row. Follow them unit you meet in the middle, for example,  $6 \times 7 = 42$ .

Try blanking out some numbers. Does your child know what numbers are missing? Look for patterns! How many calculations have the same answers?

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

### Useful tips to help your children to learn their tables at home

- When your child has begun to learn a table, practise the table with them for a few minutes each day.
- Focus on the 5X and 10 X of each table and you can go up and down. For example, if your child is trying to work out  $6 \times 3$ , work out  $5 \times 3$  and then add one more multiple of 3.
- Break down each table into manageable chunks. For example, ask them  $1 \times 6$ ,  $2 \times 6$  and  $5 \times 6$  until they can recall the answers quickly. Then add another one ( $4 \times 6$ ) and repeat the process.
- Work on pairs of tables, for example if your child is learning the 2 times tables they can use their doubling facts to learn the 4 times tables.
- Go back and revisit facts that they have previously learnt.
- Encourage your child to write out the tables they are learning, perhaps as a spider diagram and then display different tables around different parts of the house where they will see them.
- If there is a particular table your child is stuck on, make up a catchy rhyme. E.g. I skate and skate on a slippery floor.  $8 \times 8 = 64$ .
- Learn the rules. For examples, multiples of 5 have a 0 or a 5 as the final digit.
- Learn songs! For example, 2s to the Macarena song – 2 and a 4 and a 6 Macarena, 8 and a 10 and a 12 Macarena, 14, 16, 18 Macarena – 20 Macarena! 3s to the tune of row row row your boat.
- Playing matching cards or multiplication board games.
- Race around the clock (can be found on google).
- Hit the Button App on the internet.

Don't forget to use Times Table Rock Stars, especially the Sound Check if you want to see your Rock Speed! Remember, you are aiming for this to be under 5 seconds for every multiplication table by the Summer of Year 4.



### Tips and Tricks

0—The answer is always 0.

1—It is the same number.

2—Double the number. For example,  $3 \times 2 = 6$  and  $5 \times 2 = 10$

3—Double and add the number again. For example,  $6 \times 3 = 18$ . Double 6 which equals 12 and then add another group of 6 which equals 18.

4—Double the number twice. For example,  $4 \times 4 = 16$ . Double 4 which makes 8 and then double that which makes 16.

5—Skip count by 5s. <https://www.youtube.com/watch?v=EemjeA2Dijw>

6—Multiply by 5, add a group. For example,  $7 \times 6 = 42$ .  $7 \times 5 = 35$  Then add one more group of 7 and it equals 42.  $2 \times 6 = 12$  so solve  $2 \times 5 = 10$  and then add another group of 2 to equal 12.

7—Use the 7s counting patterns. <https://www.youtube.com/watch?v=nSRjYfOnsyw&list=PLoj4HiBR-4VAXDi0xQ8WW0ZrLyTIG-IDs&index=50>

8—Double, Double, Double or use the 8s counting patterns. <https://www.youtube.com/watch?v=3SwaOvWD-PY>

9—Use the finger trick. <https://www.youtube.com/watch?v=iEleFV4oMp4>

10—Add a place holder (a zero).

## useful links

A wide range of interactive games collected from different websites. Fantastic!

<https://www.multiplication.com/games/all-games>

This website is used as a teaching tool to help your child to understand multiplication as repeated addition.

[http://www.taw.org.uk/lic/itp/mult\\_facts.html](http://www.taw.org.uk/lic/itp/mult_facts.html)

BBC Mega-Maths is an excellent site. You can play the games and read the top tips.

<http://www.bbc.co.uk/schoolradio/maths/megamaths.shtml>

This site uses different maths words to test the times tables. These are words we like to use in school too.

<http://www.times-tables.com/>

BBC skillswise is a variety of games to make and play

<http://www.bbc.co.uk/skillswise/maths>

Games and activities to test yourself! When you look at the multiplication square, there are not actually that many times tables to learn.

<http://www.gamequarium.com/multiplication.html>

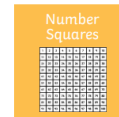
### Top Tips for Learning Your Times Tables



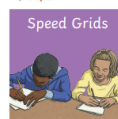
Use different coloured cubes to make patterns and tables of numbers, e.g. to make the 4 times table, make sticks of 4, 8, 12, 16 up to  $4 \times 12$ .



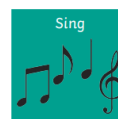
Make multiplication table fortune tellers and practise with your friends.



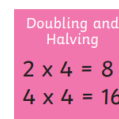
Colour in the pattern of a particular multiplication table on a number square.



Try completing some speed grids. You should get faster and more accurate every time.



Sing your times tables! Can you sing your times tables to the tune of your favourite song?



Use doubling and halving to help you. If you know  $2 \times 4$  is 8, then you know  $4 \times 4$  is 16 by doubling!



Create a set of multiplication table question and answer matching pairs cards. Play with your friends and family!



Play times tables games online.



Practise your multiplication facts at every opportunity, whilst walking to school, in the car or in the bath!