



Times Table Challenge

X7, X11 & X12

Gold Award
Practice Book

Dear parents/carers,

At Emmbrook Junior School, we believe that times tables are a vital skill, which offer a foundation for learning other aspects of mathematics. Regular practise of times tables is essential in ensuring that they are embedded in the children's long term memory.

This is a Gold booklet, which focuses on the 7, 11 & 12 times tables as well as those from the Bronze and Silver Award. We request that the children practise these times tables at home and school on a regular basis, and they will be tested on these weekly, in a format shown at the back of the booklet. When the children can answer all of these times tables accurately and timely, they will move onto Silver Plus Award, focusing on division of these facts.

Tips for helping your child learn their times tables:

- Regular practice
- Demonstrate
- Chant/sing
- Stick up charts
- Play games

Useful Websites:

<http://www.fun4thebrain.com/mult.html>

<http://www.fun4thebrain.com/division.html>

<https://www.topmarks.co.uk/maths-games/7-11-years/times-tables>

Apps

Smart phone and tablet stores have a multitude of apps help learn and games to play based around times tables.

Dear Children,

You are working on Gold times tables, which are the 7, 11 & 12 times tables. It is very important that you practise these as often as you can to improve your speed and accuracy.

Each week, you will be tested on these.

How quickly can you answer 132 times tables questions?

Tips to help you learn your times tables:

- Chant each times table out loud: 'four times two is eight'
- Make a rhyme
- Can you do it backwards, starting with 12 x ?
- Ask someone to test you in a random order.

once you have achieved your Gold award, you are able to try for your Gold Plus!

This will test your knowledge of division and enable you to master your number facts.

Good luck!

2 Times Table

$1 \times 2 = 2$	$2 \times 2 = 4$	$3 \times 2 = 6$	$4 \times 2 = 8$
$5 \times 2 = 10$	$6 \times 2 = 12$	$7 \times 2 = 14$	$8 \times 2 = 16$
$9 \times 2 = 18$	$10 \times 2 = 20$	$11 \times 2 = 22$	$12 \times 2 = 24$

Top Tip - $2x$ is just doubling the number. The same as adding the number to itself.

5 Times Table

$1 \times 5 = 5$	$2 \times 5 = 10$	$3 \times 5 = 15$	$4 \times 5 = 20$
$5 \times 5 = 25$	$6 \times 5 = 30$	$7 \times 5 = 35$	$8 \times 5 = 40$
$9 \times 5 = 45$	$10 \times 5 = 50$	$11 \times 5 = 55$	$12 \times 5 = 60$

Top Tip - $5x$ has a pattern: 5, 10, 15, 20, etc. So, numbers in the $5x$ tables always end in either 0 or 5 or, you could $\times 10$ and

3 Times Table

$1 \times 3 = 3$	$2 \times 3 = 6$	$3 \times 3 = 9$	$4 \times 3 = 12$
$5 \times 3 = 15$	$6 \times 3 = 18$	$7 \times 3 = 21$	$8 \times 3 = 24$
$9 \times 3 = 27$	$10 \times 3 = 30$	$11 \times 3 = 33$	$12 \times 3 = 36$

Top Tip - If the digits in the number add up to either 3, 6 or 9, then that number is in the $3x$ tables. e.g. $27 > 2 + 7 = 9$

10 Times Table

$1 \times 10 = 10$	$2 \times 10 = 20$	$3 \times 10 = 30$	$4 \times 10 = 40$
$5 \times 10 = 50$	$6 \times 10 = 60$	$7 \times 10 = 70$	$8 \times 10 = 80$
$9 \times 10 = 90$	$10 \times 10 = 100$	$11 \times 10 = 110$	$12 \times 10 = 120$

Top Tip - $10x$ is maybe the easiest of them all ... just move your digit one space to the left and add a zero as a place holder. e.g. $5 \times$



4 Times Table

$1 \times 4 = 4$	$2 \times 4 = 8$	$3 \times 4 = 12$	$4 \times 4 = 16$
$5 \times 4 = 20$	$6 \times 4 = 24$	$7 \times 4 = 28$	$8 \times 4 = 32$
$9 \times 4 = 36$	$10 \times 4 = 40$	$11 \times 4 = 44$	$12 \times 4 = 48$

Top Tip - $4x$ simply double the number and double it again. Notice how, in the $4x$ tables, all of the units are even digits

8 Times Table

$1 \times 8 = 8$	$2 \times 8 = 16$	$3 \times 8 = 24$	$4 \times 8 = 32$
$5 \times 8 = 40$	$6 \times 8 = 48$	$7 \times 8 = 56$	$8 \times 8 = 64$
$9 \times 8 = 72$	$10 \times 8 = 80$	$11 \times 8 = 88$	$12 \times 8 = 96$

Top Tip - $8x$ all of the numbers in the 8 times tables are even. Can you spot the pattern? The ones digits go down in 2 s ($8, 6, 4, 2, 0$)

6 Times Table

$1 \times 6 = 6$	$2 \times 6 = 12$	$3 \times 6 = 18$	$4 \times 6 = 24$
$5 \times 6 = 30$	$6 \times 6 = 36$	$7 \times 6 = 42$	$8 \times 6 = 48$
$9 \times 6 = 54$	$10 \times 6 = 60$	$11 \times 6 = 66$	$12 \times 6 = 72$

Top Tip - $6x$ remember to use the facts that you have already learned. $6 \times 4 = 24$ so $4 \times 6 = 24$.

9 Times Table

$1 \times 9 = 9$	$2 \times 9 = 18$	$3 \times 9 = 27$	$4 \times 9 = 36$
$5 \times 9 = 45$	$6 \times 9 = 54$	$7 \times 9 = 63$	$8 \times 9 = 72$
$9 \times 9 = 81$	$10 \times 9 = 90$	$11 \times 9 = 99$	$12 \times 9 = 108$

Top Tip - $9x$ has a pattern: $9, 18, 27, 36, 45, 54, 63, 72, 81, 90$

Notice how the 'ones' go down: $9, 8, 7, 6, \dots$? And the 'tens' go up: $1, 2, 3, \dots$?
Your hands can help!

Example: to multiply 9 by 8 : hold your 8 th finger down, and you can count "7" and "2" ... the answer



7 Times Table

$1 \times 7 = 7$	$2 \times 7 = 14$	$3 \times 7 = 21$	$4 \times 7 = 28$
$5 \times 7 = 35$	$6 \times 7 = 42$	$7 \times 7 = 49$	$8 \times 7 = 56$
$9 \times 7 = 63$	$10 \times 7 = 70$	$11 \times 7 = 77$	$12 \times 7 = 84$

Top Tip - Remember to use the facts that you have already learnt.

$$7 \times 5 = 35 \text{ so } 5 \times 7 = 35$$

11 Times Table

$1 \times 11 = 11$	$2 \times 11 = 22$	$3 \times 11 = 33$	$4 \times 11 = 44$
$5 \times 11 = 55$	$6 \times 11 = 66$	$7 \times 11 = 77$	$8 \times 11 = 88$
$9 \times 11 = 99$	$10 \times 11 = 110$	$11 \times 11 = 121$	$12 \times 11 = 132$

Top Tip - 11x is easy-peasy up to 9×11 : just write the number that you are multiplying twice. E.g. $3 \times 11 = 33$

12 Times Table

$1 \times 12 = 12$	$2 \times 12 = 24$	$3 \times 12 = 36$	$4 \times 12 = 48$
$5 \times 12 = 60$	$6 \times 12 = 72$	$7 \times 12 = 84$	$8 \times 12 = 96$
$9 \times 12 = 108$	$10 \times 12 = 120$	$11 \times 12 = 132$	$12 \times 12 = 144$

Top Tip - 12 is $10 + 2$, so $12 \times$ something is $10 \times$ something + $2 \times$ something

Gold Times Tables Challenge

Can you complete each of the following times table challenges in 10 minutes or under?

X	11	4	3	8	9	5	10	4	2	6	7	1
12												
11												
7												
9												
6												
8												
4												
3												
5												
10												
2												

Time Taken:

Gold Times Tables Challenge

Can you complete each of the following times table challenges in 10 minutes or under?

X	12	3	7	10	1	9	5	6	4	2	11	8
12												
11												
7												
9												
6												
8												
4												
3												
5												
10												
2												

Time Taken: