

Times Tables!

How to help your child

**Where we stand with
tables...**

National Curriculum

Expectations for times tables for each year group:	
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 multiplication tables, including recognising odd and even numbers.
Year 3	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.
Year 4	Recall and use multiplication and division facts for multiplication tables up to 12x12.
Year 5	Revision of all times tables and division facts up to 12x12.
Year 6	Revision of all times tables and division facts up to 12x12.

Statutory Assessment

In the summer term of Year 4, pupils will be expected to take an online multiplication check. This consists of 25 questions, each question with a maximum of 6 seconds to answer.

For more info click [here](#).

Statutory Assessment

Analysis of the sample papers from the DfE show that a knowledge of multiplication and division facts is required in order to answer a high proportion of questions:

KS1 Sample Papers

Arithmetic - 9/25 questions

Reasoning - 10/31 questions

KS2 Sample Papers

Arithmetic - 22/36 questions

Reasoning paper 1 - 10/20
questions

Reasoning paper 2 - 9/20
questions

EFPS Times Table Challenge

Challenge Level	What do I need to know?
Blue	2x 5x 10x
Green	3x ± 2 ± 5 ± 10
Orange	4x 8x ± 3 ± 4 ± 8
Red	6x 7x 9x ± 6
BRONZE	11x 12x ± 7 ± 9
SILVER	mixed x
GOLD	mixed $\pm$



Blue Award
Test 1



You will have 5 minutes to
complete this test.

$2 \times 3 =$

$2 \times 1 =$

$2 \times 6 =$

$2 \times 11 =$

$2 \times 8 =$

$2 \times 4 =$

$2 \times 10 =$

$2 \times 12 =$

$2 \times 0 =$

$2 \times 5 =$

$2 \times 9 =$

$2 \times 7 =$

$2 \times 2 =$

Total:



Blue Award
Test 6



You will have 5 minutes to complete
this test.

$3 \times 2 =$

$1 \times 2 =$

$3 \times 10 =$

$8 \times 10 =$

$3 \times 5 =$

$6 \times 5 =$

$6 \times 2 =$

$11 \times 2 =$

$1 \times 10 =$

$12 \times 10 =$

$0 \times 5 =$

$5 \times 10 =$

$8 \times 2 =$

$4 \times 2 =$

$6 \times 10 =$

$0 \times 10 =$

$8 \times 5 =$

$5 \times 2 =$

$2 \times 10 =$

$12 \times 2 =$

$11 \times 10 =$

$10 \times 5 =$

$1 \times 5 =$

$11 \times 5 =$

$0 \times 2 =$

$2 \times 5 =$

$4 \times 10 =$

$9 \times 10 =$

$12 \times 5 =$

$4 \times 5 =$

$9 \times 2 =$

$7 \times 2 =$

$10 \times 10 =$

$10 \times 2 =$

$5 \times 5 =$

$9 \times 5 =$

$2 \times 2 =$

$7 \times 5 =$

$7 \times 10 =$

Total:



Silver Award Test 1



You will have 5 minutes to complete this test

$7 \times 3 = \underline{\quad} \quad 6 \times 11 = \underline{\quad} \quad 7 \times 10 = \underline{\quad} \quad 1 \times 7 = \underline{\quad} \quad 10 \times 8 = \underline{\quad} \quad 4 \times 10 = \underline{\quad}$

$5 \times 2 = \underline{\quad} \quad 8 \times 12 = \underline{\quad} \quad 11 \times 12 = \underline{\quad} \quad 2 \times 11 = \underline{\quad} \quad 12 \times 9 = \underline{\quad} \quad 2 \times 9 = \underline{\quad}$

$6 \times 12 = \underline{\quad} \quad 6 \times 9 = \underline{\quad} \quad 10 \times 8 = \underline{\quad} \quad 1 \times 9 = \underline{\quad} \quad 2 \times 8 = \underline{\quad} \quad 5 \times 8 = \underline{\quad}$

$10 \times 2 = \underline{\quad} \quad 10 \times 7 = \underline{\quad} \quad 3 \times 4 = \underline{\quad} \quad 4 \times 12 = \underline{\quad} \quad 11 \times 9 = \underline{\quad} \quad 6 \times 1 = \underline{\quad}$

$5 \times 1 = \underline{\quad} \quad 5 \times 12 = \underline{\quad} \quad 2 \times 3 = \underline{\quad} \quad 9 \times 6 = \underline{\quad} \quad 9 \times 3 = \underline{\quad} \quad 11 \times 10 = \underline{\quad}$

$10 \times 11 = \underline{\quad} \quad 11 \times 5 = \underline{\quad} \quad 7 \times 7 = \underline{\quad} \quad 12 \times 4 = \underline{\quad} \quad 4 \times 10 = \underline{\quad} \quad 7 \times 3 = \underline{\quad}$

$7 \times 12 = \underline{\quad} \quad 9 \times 9 = \underline{\quad} \quad 7 \times 2 = \underline{\quad} \quad 8 \times 3 = \underline{\quad} \quad 9 \times 2 = \underline{\quad} \quad 4 \times 5 = \underline{\quad}$

$2 \times 9 = \underline{\quad} \quad 9 \times 1 = \underline{\quad} \quad 6 \times 9 = \underline{\quad} \quad 3 \times 6 = \underline{\quad} \quad 11 \times 8 = \underline{\quad} \quad 3 \times 5 = \underline{\quad}$

$3 \times 12 = \underline{\quad} \quad 11 \times 12 = \underline{\quad} \quad 11 \times 4 = \underline{\quad} \quad 8 \times 5 = \underline{\quad} \quad 11 \times 7 = \underline{\quad} \quad 2 \times 2 = \underline{\quad}$

$6 \times 7 = \underline{\quad} \quad 4 \times 8 = \underline{\quad} \quad 6 \times 4 = \underline{\quad} \quad 10 \times 6 = \underline{\quad} \quad 7 \times 6 = \underline{\quad} \quad 8 \times 1 = \underline{\quad}$

Total:



Gold Award Test 1



You will have 5 minutes to complete this test

$90 \div 9 = \underline{\quad} \quad 80 \div 10 = \underline{\quad} \quad 6 \div 6 = \underline{\quad} \quad 20 \div 4 = \underline{\quad} \quad 20 \div 5 = \underline{\quad} \quad 110 \div 10 = \underline{\quad}$

$55 \div 11 = \underline{\quad} \quad 60 \div 10 = \underline{\quad} \quad 11 \div 11 = \underline{\quad} \quad 77 \div 11 = \underline{\quad} \quad 12 \div 12 = \underline{\quad}$

$36 \div 12 = \underline{\quad} \quad 21 \div 7 = \underline{\quad} \quad 132 \div 12 = \underline{\quad} \quad 110 \div 11 = \underline{\quad} \quad 44 \div 4 = \underline{\quad}$

$90 \div 10 = \underline{\quad} \quad 12 \div 2 = \underline{\quad} \quad 25 \div 5 = \underline{\quad} \quad 81 \div 9 = \underline{\quad} \quad 10 \div 2 = \underline{\quad} \quad 144 \div 12 = \underline{\quad}$

$24 \div 3 = \underline{\quad} \quad 84 \div 12 = \underline{\quad} \quad 4 \div 4 = \underline{\quad} \quad 24 \div 6 = \underline{\quad} \quad 3 \div 3 = \underline{\quad} \quad 21 \div 3 = \underline{\quad}$

$10 \div 10 = \underline{\quad} \quad 30 \div 5 = \underline{\quad} \quad 99 \div 9 = \underline{\quad} \quad 99 \div 11 = \underline{\quad} \quad 72 \div 12 = \underline{\quad} \quad 27 \div 9 = \underline{\quad}$

$42 \div 6 = \underline{\quad} \quad 120 \div 10 = \underline{\quad} \quad 40 \div 10 = \underline{\quad} \quad 30 \div 6 = \underline{\quad} \quad 50 \div 10 = \underline{\quad}$

$70 \div 7 = \underline{\quad} \quad 18 \div 2 = \underline{\quad} \quad 40 \div 4 = \underline{\quad} \quad 77 \div 7 = \underline{\quad} \quad 24 \div 8 = \underline{\quad} \quad 60 \div 6 = \underline{\quad}$

$12 \div 4 = \underline{\quad} \quad 35 \div 7 = \underline{\quad} \quad 100 \div 10 = \underline{\quad} \quad 14 \div 7 = \underline{\quad} \quad 63 \div 7 = \underline{\quad} \quad 54 \div 6 = \underline{\quad}$

$22 \div 2 = \underline{\quad} \quad 72 \div 6 = \underline{\quad} \quad 132 \div 11 = \underline{\quad} \quad 33 \div 11 = \underline{\quad} \quad 28 \div 4 = \underline{\quad}$

$20 \div 10 = \underline{\quad} \quad 55 \div 5 = \underline{\quad} \quad 60 \div 5 = \underline{\quad} \quad 36 \div 9 = \underline{\quad}$

Total:

Making learning new tables less 'scary'...

X	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
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3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
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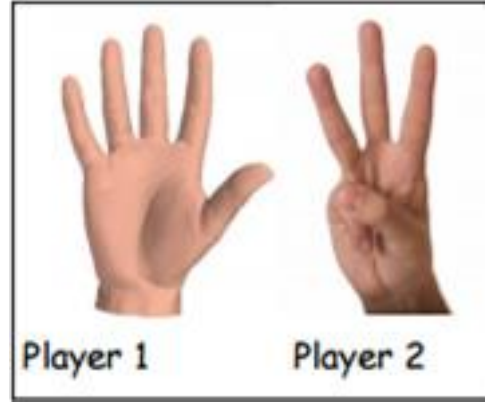
X	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
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Making tables fun!

Games

Super Fingers

This is a game for two players!



The game is basically a version of rock, paper, scissors but with numbers.

Two players count to 3 and then make a number using their fingers.

Both players then have to multiply both numbers together and the quickest wins.

Multiplication Snap

A game for 2 players. You will need a deck of cards for this game!

1. Deal the cards to all players.
2. At the same time, turn over your first card.
3. Multiply the 2 numbers together - the first person to say the correct answer wins both cards.
3. The person to get all of the cards wins.



BINGO!

Make a grid of six squares on a piece of paper and ask your child to write a number in each square from their target tables e.g. 6 numbers in the 5 x table.

Give them a question and if they have the answer, they mark it off.

First one to mark off all their numbers is the winner

Online bingo caller for x-tables (evaluation only but could be useful)

<http://www.teachingtables.co.uk/bingo/caller/caller.html>

Tables Tennis

This game requires two players.

A says a number (e.g. 4) and B replies with another number (e.g. 8).

Both children should then multiply these two numbers together (without saying the answer).

In this example, $4 \times 8 = 32$ so ...

A now says the tens of the answer (3) and B says the units (2)

Fizz - Buzz

Choose a times table to work with.

Begin counting (taking it in turns) in ones...

1, 2, 3...

When you get to a multiple in the times table, you say 'Fizz' then continue counting...

1, 2, 3, fizz, 5, 6, 7, fizz...

More difficult: choose 2 tables to work with - one will be fizz, the other will be buzz.

Pairs game.

Choose a set of times tables to focus on - lay the cards out on a flat surface and shuffle them.

Each person gets to turn over two cards, if they find a matching pair (the question and the answer) they get to keep the pair and have another turn, if not they must put them back in the same place and the next person gets a turn.

This improves memory as well as recall.

Speed Challenge

Keep track of how quickly your child can fill in the grid (maybe you could compete against them!)

For every wrong answer, they must add 1 second to their final time.

Times tables speed grid

Use this grid to practise times tables. Write in any one-digit number in the blue boxes, as shown here. The 'x' means you multiply those numbers, and work along each column and row, filling in the answers as you go.

x	3	7	4	1	9	2	6	8	5
9	27				81				
2	6				18				
5	15				54				
8	24				72				
1	3	7	4	1	9	2	6	8	5
7	21				63				
3	9				27				
6	18				54				
4	12				36				



How quickly can you
finish a speed grid?
Try to beat your record!

[illegible]

Tricks and Rhymes

Reverse it!

Remember that multiplication is **commutative**, meaning that it can be done in any order!

When your child knows $2 \times 7 = 14$, remind them that they also know what 7×2 is!

Rhyme Time

Silly rhymes can help children learn tricky tables,

e.g. $8 \times 8 = 64$ He ate and ate and was sick on the floor, eight times eight is 64.

$3 \times 3 = 9$ Swing from tree to tree on a vine, three times three is nine.

$7 \times 7 = 49$ Seven times seven is like a rhyme, seven times seven is 49

9 x tables on your fingers

1. Hold your hands in front of you with your fingers spread out.



2. For 9×4 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.

Tricky Sixes

Six times tables can be tricky to learn.

One helpful trick is that in the 6 times tables, when you multiply an even number by 6, they both end in the same digit.

$$2 \times 6 = 12$$

$$4 \times 6 = 24$$

$$6 \times 6 = 36$$

$$8 \times 6 = 48$$

Double, Double

A quick trick for learning the fours is just to double, double.

Double the number and then double it again.

E.g. 3×4 double 3 is 6, double 6 is 12 so $3 \times 4 = 12$

Looking for Patterns

Being able to spot the patterns in numbers is an important skill and can also help with learning times tables.

Children can investigate these multiplication rules:

Odd number x odd number = odd number (E.g. $3 \times 5 = 15$)

Even number x even number = even number (E.g. $4 \times 6 = 24$)

Odd number x even number = even number (E.g. $3 \times 6 = 18$)

Mnemonics

With your child you could design fun mnemonics to help learn their times tables.

Use phrases which sound like numbers if it helps.

Try writing a list of words that rhyme with your tables, five - hive, ten - hen, fifteen - seen!

Write the list out and invent a story using the words.

Read the story back to them and emphasise the words that rhyme with the number facts – can they tell you the numbers?

Online games and apps

Key messages

- Celebrate 'little victories'
- Keep it fun
- Encourage children to 'use what they know'
- Don't pass on your own dislike of times tables!