Year 3 and Year 4

Times Tables Workshop - 19/11/26

Year 4 - Mrs Carroll & Mrs Nassa

What we will cover



1) The end goal
2) What we teach and when
3) Activities and games to help learn times tables
4) What is the Multiplication Times Tables Check (MTC)?

The end goal

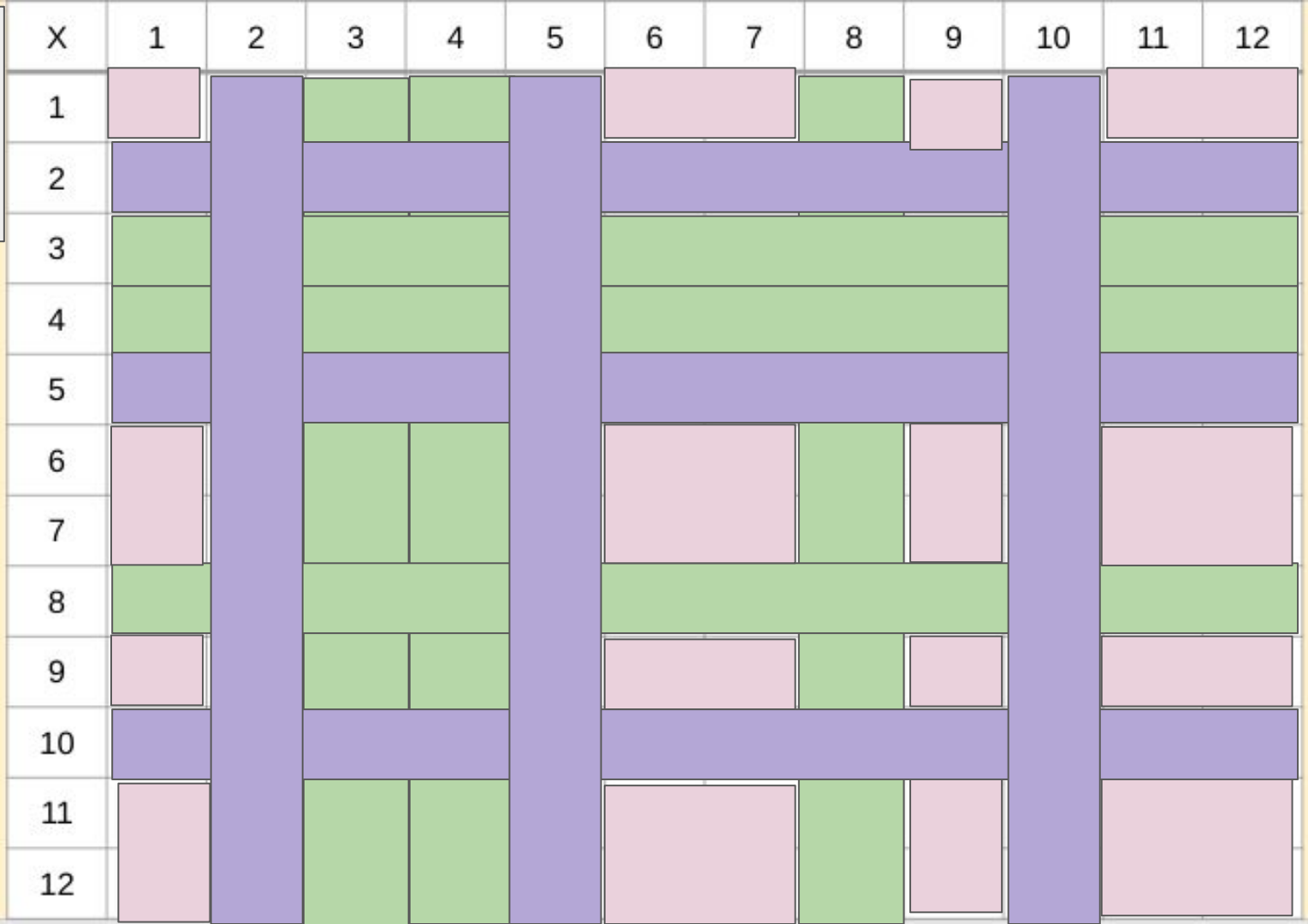


- By the end of Year 4, all children are expected to know all of their times tables facts up to 12 x 12.

- This is the result of a gradual build up from Year 1.
  - End of year 1 - fluency in skip counting in 2s, 5s and 10s
  - End Y2: calculating, moving to recall of 2x, 5x and 10x
  - End Y3: recall of 2x, 5x,10x, teaching and recall of 3x, 4x and 8x
  - End Y4: Recall of all times tables up to 12 x 12

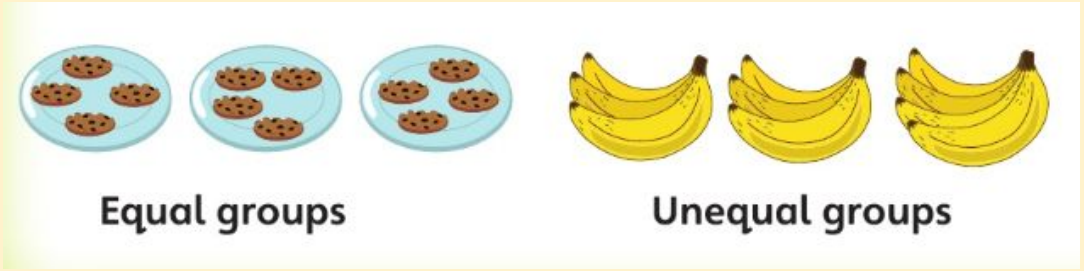
- Times tables are the building blocks for progress. In Y5 and Y6, and beyond, times tables are is important for more complex multiplications and mathematical problems, for example ratio.

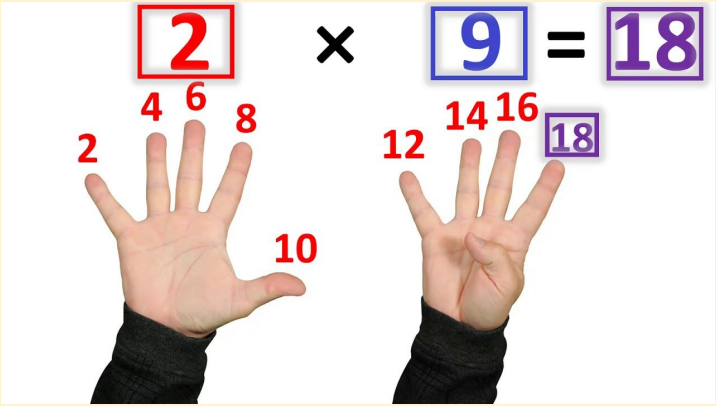
Fluency is the aim!

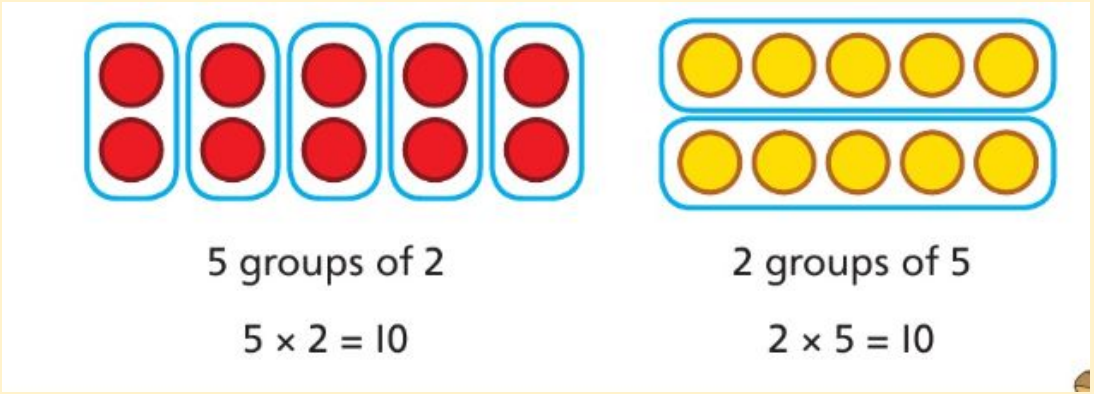


Fluency is the aim - there are 144 X facts to learn, the 1 X is not taught explicitly or tested, with related division facts. May look daunting but is easily achievable through structured development, children learn, practise and secure these facts to achieve recall.
Lilac - Yr 2 with commutative law we are also learning facts from other tables. 64
Green - Yr 3 Explore relationship between 2, 4 and 8. With familiarity with x1 there are only 25 facts that have not been encountered
Yr 4 - Children are taught 6, 9, 7, 11 and 12, including the relationship between 3, 6 and 12

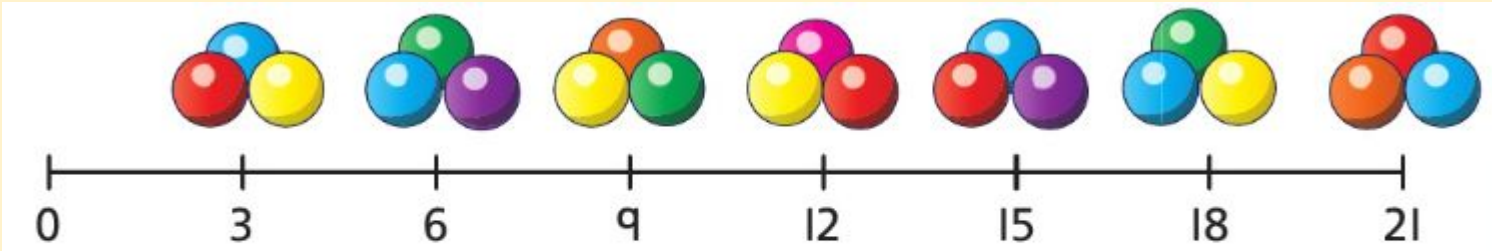
Key understanding to learn multiplication facts





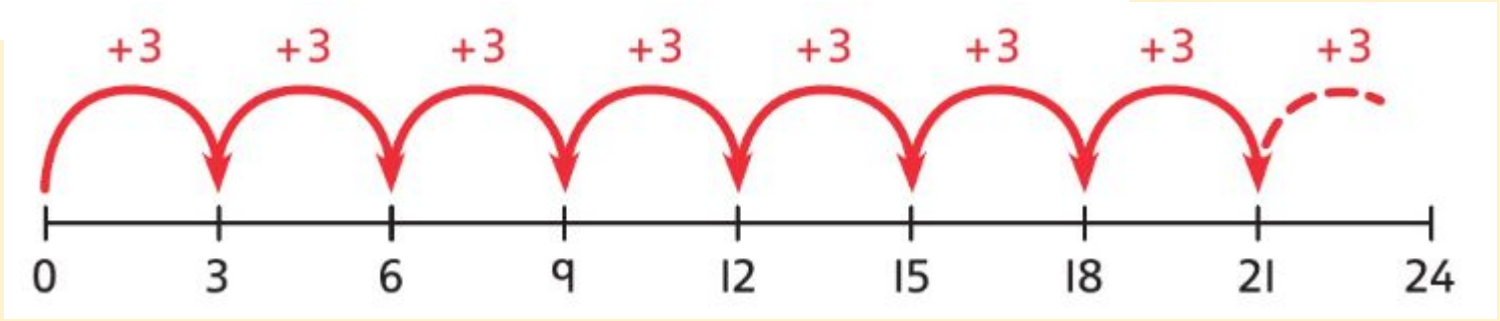


Relationship to skip counting and repeated addition



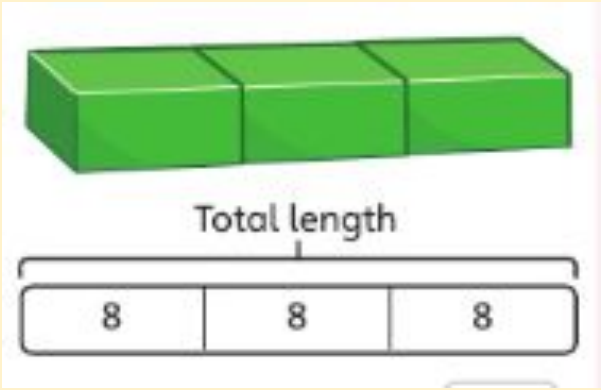
$3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$

$7 \times 3 = 21$

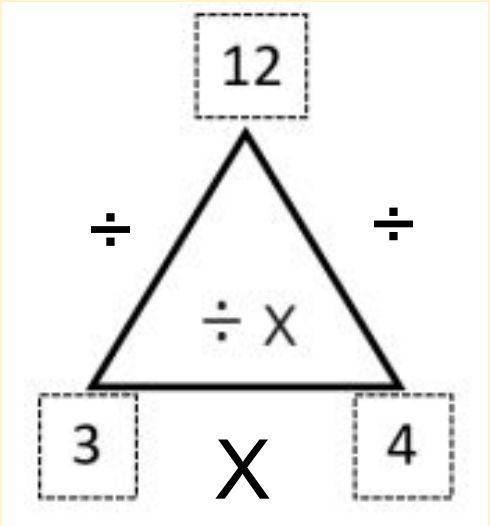


Number lines enable chn to build up tables knowledge from known key facts.

Bar models can be used to represent both X and ÷ facts



Fact families reinforce recall and relationships between facts

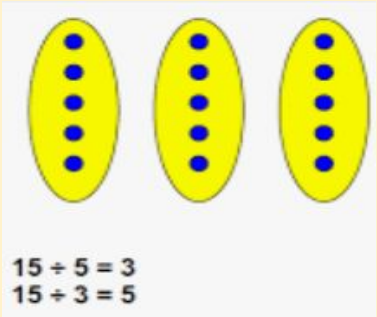


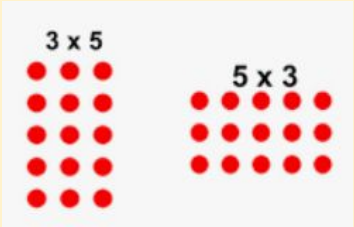
Using known facts to rapidly calculate new facts

7 X 4 = 5 X 4 plus 2 X 4
7 X 4 = 20 + 8
7 X 4 = 28

Activities and games at home to help

- Different strategies used to teach times tables.
- Children understand the meaning of times tables before learning them.
- Encourage children to see patterns and links. (eg 3 and 6 times tables).





Learn → Practise → Quick recall



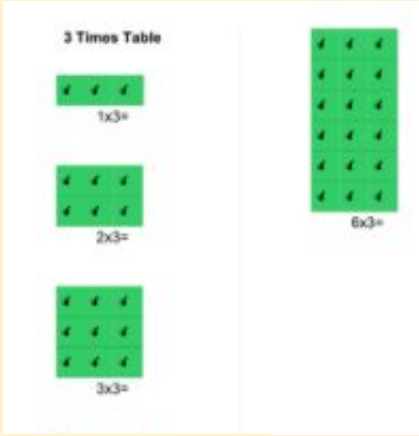
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

100 square

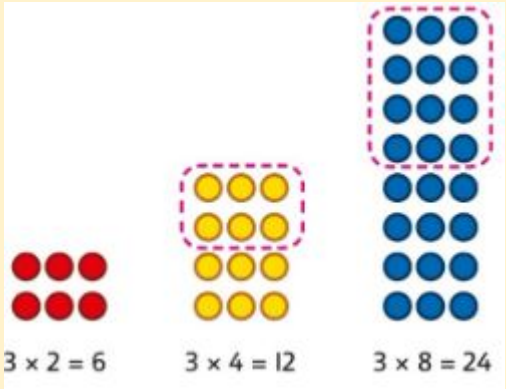
See patterns (eg 2, 5, 10)

Array

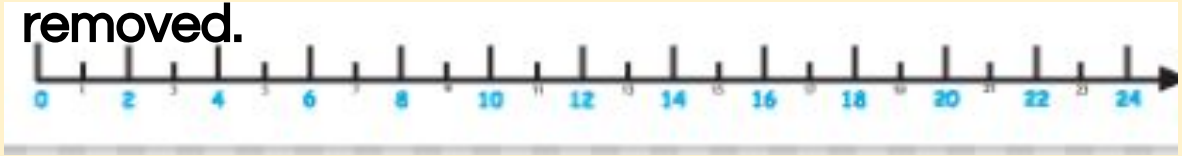
3 times table



Links between the 2, 4 and 8 times table



Number line - write on, orally rehearse, gradually remove until all have been removed.



Learn → Practise → Quick recall

Recall in order first. Then random.

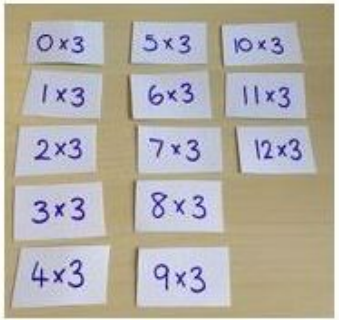
Games with the cards

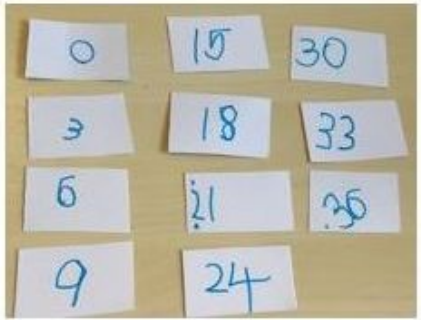
On your own, in a pair, with an adult...

- In order first, with the list still visible
- In order, without the list
- Starting with the product, give the fact
- Out of order – choose 'easiest' first
- Out of order – less choice of order
- Speed round

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0 x 3 = 0
1 x 3 = 3
2 x 3 = 6
3 x 3 = 9
4 x 3 = 12
5 x 3 = 15
6 x 3 = 18
7 x 3 = 21
8 x 3 = 24
9 x 3 = 27
10 x 3 = 30
11 x 3 = 33
12 x 3 = 36





6 second rule!

Quick recall

- Regular checks
- Little and often
- Not just online (other times of the day)
- Make it fun - who is quicker, who can remember the most, learn with your child, they can test you



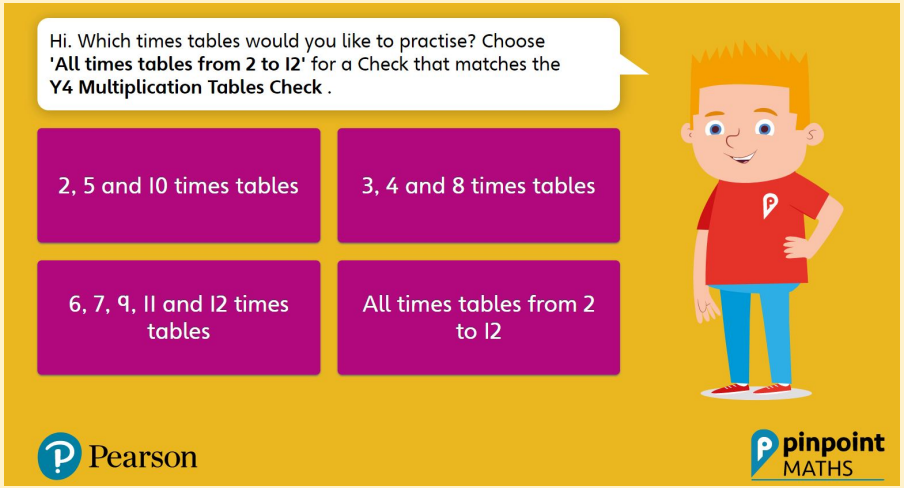


Online games



Children need their login details.
Username and password.

https://ttrockstars.com/



No login needed.

https://www.themathsfactor.com/times-tables-check/pinpoint/

TTRS information - Heat map using information from 'Garage mode'.

	10	2	5	3	4	8	6	7	9	11	12
10	10 × 10	10 × 2	10 × 5	10 × 3	10 × 4	10 × 8	10 × 6	10 × 7	10 × 9	10 × 11	10 × 12
2	2 × 10	2 × 2	2 × 5	2 × 3	2 × 4	2 × 8	2 × 6	2 × 7	2 × 9	2 × 11	2 × 12
5	5 × 10	5 × 2	5 × 5	5 × 3	5 × 4	5 × 8	5 × 6	5 × 7	5 × 9	5 × 11	5 × 12
3	3 × 10	3 × 2	3 × 5	3 × 3	3 × 4	3 × 8	3 × 6	3 × 7	3 × 9	3 × 11	3 × 12
4	4 × 10	4 × 2	4 × 5	4 × 3	4 × 4	4 × 8	4 × 6	4 × 7	4 × 9	4 × 11	4 × 12
8	8 × 10	8 × 2	8 × 5	8 × 3	8 × 4	8 × 8	8 × 6	8 × 7	8 × 9	8 × 11	8 × 12
6	6 × 10	6 × 2	6 × 5	6 × 3	6 × 4	6 × 8	6 × 6	6 × 7	6 × 9	6 × 11	6 × 12
7	7 × 10	7 × 2	7 × 5	7 × 3	7 × 4	7 × 8	7 × 6	7 × 7	7 × 9	7 × 11	7 × 12
9	9 × 10	9 × 2	9 × 5	9 × 3	9 × 4	9 × 8	9 × 6	9 × 7	9 × 9	9 × 11	9 × 12
11	11 × 10	11 × 2	11 × 5	11 × 3	11 × 4	11 × 8	11 × 6	11 × 7	11 × 9	11 × 11	11 × 12
12	12 × 10	12 × 2	12 × 5	12 × 3	12 × 4	12 × 8	12 × 6	12 × 7	12 × 9	12 × 11	12 × 12

Questions with purple borders are the ones this pupil will practise in Garage. The colours on this page relate to the speed shown in this table:

0 - 1s	1 - 2s	2 - 3s	3 - 4s	4 - 5s	5 - 6s	6 - 7s	7 - 8s	8 - 9s	9 - 10s	> 10s

TTRS - Year 3

In Year 3, teachers also set tables to focus on in line with the class curriculum.

Children should use **jamming** to help practise and consolidate times tables without time constraints.

The **garage mode** ensure their heat map is updated and shows progress visually for both the teacher and child.

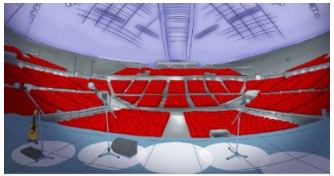
A monthly **gig**, provides the teacher with data about their progress, gaps to plug and tables to target.

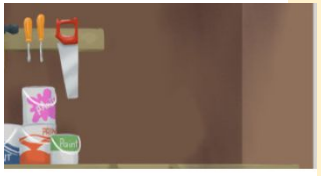
TTRS - Year 4

In Year 4, children should use **Garage mode** to ensure their heat map is updated and shows progress made.

Children should also use **soundcheck** to prepare them for the MTC. 25 questions with 6 seconds to answer the questions.

April/ May children can also use **studio.**





Y4 Multiplication Tables Check

Monday 7th June 2027 - Friday 18th June 2027

- Children in Year 4
- 25 questions plus 3 practise questions
- 6 seconds to answer each question with 3 seconds in between questions
- Children have been trained to enter the answer but to allow the time to lapse (No need to press enter)
- Focus more on KS2 tables with minimal checking of KS1 tables
- There are no division questions it is a multiplication check.

Y4 Multiplication Tables Check

- Questions about the 6, 7, 8, 9, and 12 times table come up more often, questions are generated randomly
- Access arrangements are available for those who need it
- There is no pass mark - the government expectation is for all children to score 25
- Parents/carers receive the results in the end of year reports

Multiplication tables check

Do you have a child in year 4 at primary school?

If so, your child will be participating in the multiplication tables check (MTC) in June.

The purpose of the check is to determine whether your child can fluently recall their times tables up to 12, which is essential for future success in mathematics. It will also help your child's school to identify if your child may need additional support.

What is the multiplication tables check?

It is an on-screen check consisting of 25 times table questions. Your child will be able to answer 3 practice questions before taking the actual check. They will then have 6 seconds to answer each question. On average, the check should take no longer than 5 minutes to complete.

What if my child cannot access the check?

There are several access arrangements available for the check, which can be used to support pupils with specific needs. Your child's teacher will ensure that the access arrangements are appropriate for your child before they take the check in June.

The check was designed to be inclusive and accessible to as many children as possible, including those with special educational needs or disability (SEND) or English as an additional language (EAL). However, there may be some circumstances in which it will not be appropriate for a pupil to take the check, even when using suitable access arrangements.

If you have any concerns about your child accessing the check, you should discuss this with your child's headteacher.

Do I need to do anything to prepare my child for the check?

No, you do not need to do anything additional to prepare your child for the check. As part of usual practice, teachers may ask you to practise times tables with your child.

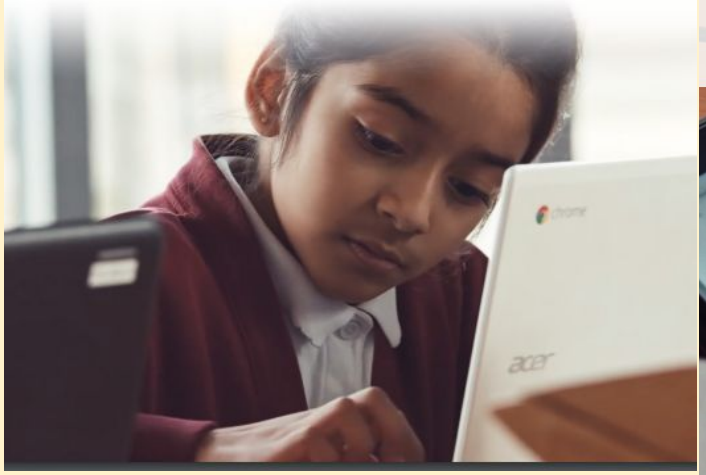
Schools will have unlimited access to a 'try it out' area from April. They can use this to make sure pupils have the necessary support to access the check. This includes opportunities for pupils to familiarise themselves with the check application and try out any access arrangements that may be required.

How will the results be used?

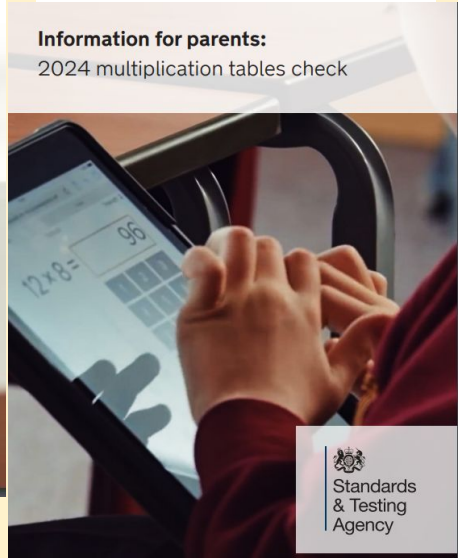
Schools will have access to all their pupils' results, to allow them to identify pupils who need additional support.

Will I receive feedback on my child's check?

Yes. Your child's teacher will share your child's score with you, as they would with all national curriculum assessments. There is no pass mark for the check.



A link to this document has been added to the Year 4 page on the website.



By the time the children sit the check they should be:

- Confident in their recall of multiplication facts for all tables tables
- Familiar with the format
- Unfazed by the process - part of our daily classroom practise
- Clearly applying this knowledge and understanding to other areas of maths and problem solving

https://www.themathsfactor.com/times-tables-check/pinpoint/#/

Time to Practise!

Hi. Which times tables would you like to practise? Choose **'All times tables from 2 to 12'** for a Check that matches the **Y4 Multiplication Tables Check** .

- 2, 5 and 10 times tables
- 3, 4 and 8 times tables
- 6, 7, 9, 11 and 12 times tables
- All times tables from 2 to 12



Pearson

pinpoint MATHS

Thank you for your time today.

Questions?

