



# Year 4 Multiplication Check

Wednesday 18<sup>th</sup> January




# During this presentation, we will look at:

- the purpose of the check
- when and how it will be carried out
- arrangements for the check
- the content and structure of the check
- what we are doing at school to help prepare the children
- how you can support your child at home
- useful resources



# What is the purpose of the MTC?

Under the current National Curriculum, children are supposed to know their times tables by the end of Year 4. The Multiplication Tables Check (MTC) has been introduced

- to ensure that children do know their times tables
  - To establish whether Year 4 pupils can fluently recall their multiplication tables.
  - To help schools to identify pupils who requires additional support.
  - There is no 'pass' rate or threshold.
  - The DfE will create a report on overall results across all schools in England to measure improvements.
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# When will the MTC be carried out?

- All eligible Year 4 pupils in England will take the check within a 3 week window.
- 5<sup>th</sup> June – 22<sup>nd</sup> June



# How will the MTC check be carried out and what will it look like?

- The check will be fully digital and take place on screen.
- Answers will be entered using a keyboard or by pressing digits or touchscreen using an on-screen number pad.
- The children will be sitting practise checks for them to experience the conditions that they will be sat in



# How will the MTC be carried out and what will it look like?

- Under standard administration, the multiplication check will take less than 5 minutes per pupil.
- Children will get 6 seconds from the time the question appears to input their answer.
- The 6 seconds per answer means that children must be able to read, recall and enter their response within that time. Whatever is written in the answer box at the end of 6 seconds will be counted as the answer i.e. if the student intends to write 144 and only 14 is typed when the timer ends, their recorded answer is 14.



# What will it look like?

- Each pupil will be **randomly assigned** a set of questions.
- Children will **only face multiplication statements** in the check (not related division facts).
- Pupils will not see their individual results when they complete the check, however this will be reported to parents.

# What will it contain?

- There will always be questions from the 3, 4, 5, 6, 7, 8, 9, 11 and 12 multiplication tables in each check.
- There will be no questions from the 1 times table (i.e  $1 \times 8$  or  $8 \times 1$ ).
- The 6, 7, 8, 9 and 12 times tables are more likely to be asked.
- There will only be a maximum of 7 questions from the 2, 5 and 10 times tables.
- Reversal of questions will not feature in the same check for example  $8 \times 6 = 6 \times 8$

5.2.1 Table 1 – Multiplication table limits in the MTC

| Multiplication Table | Minimum number of items in each form | Maximum number of items in each form |
|----------------------|--------------------------------------|--------------------------------------|
| 1                    | Not applicable                       | Not applicable                       |
| 2                    | 0                                    | 2                                    |
| 3                    | 1                                    | 3                                    |
| 4                    | 1                                    | 3                                    |
| 5                    | 1                                    | 3                                    |
| 6                    | 2                                    | 4                                    |
| 7                    | 2                                    | 4                                    |
| 8                    | 2                                    | 4                                    |
| 9                    | 2                                    | 4                                    |
| 10                   | 0                                    | 2                                    |
| 11                   | 1                                    | 3                                    |
| 12                   | 2                                    | 4                                    |





# What happens before the check?

How are we helping the children to learn facts in school?

- Setting regular sessions on Times Tables Rockstars
- Teaching times tables facts first:
- Counting and looking for patterns
- Multiplication is commutative:  $3 \times 2$  is the same as  $2 \times 3$ ; multiplication can be completed in any order to produce the same answer
- Multiplication is the inverse of division
- Number families

Use of different representations

- Concrete manipulatives such as counters or multilink cubes
- Pictorial representations such as arrays

# What resources can I use?

- Complete sessions set on Times Tables Rockstars
- Online - Maths Frame – Free resource that gives you an indication at the speed at which the questions are asked.

<https://mathsframe.co.uk/en/resources/resource/477/Multiplication-Tables-Check>

Online-Times Tables Songs

## Multiplication Tables Check

This activity exactly mirrors the 'Multiplication Tables Check' that will be given to children at the end of Year 4. They are tested on their multiplication tables up to  $12 \times 12$ . There are twenty-five questions and children have six seconds to answer each question and three seconds between questions. The questions are generated randomly using the same rules as the 'Multiplication Tables Check' (see below).

Results can be downloaded and printed at the end of the test.

A similar activity which tests recall of [number bonds](#) can be found [here](#).

[For more multiplication games click here.](#)

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| 7                    | 2                                    | 4                                    |
| 8                    | 2                                    | 4                                    |
| 9                    | 2                                    | 4                                    |
| 10                   | 0                                    | 2                                    |
| 11                   | 1                                    | 3                                    |
| 12                   | 2                                    | 4                                    |

MAIN MENU **Multiplication Tables Check** Time left: 2

$3 \times 8 =$

Play game

Time allowed: 6 seconds  
Tables selected: All

Question 1 of 25 MATHSFRAME

1 2 3  
4 5 6  
7 8 9  
0 ENTER



# How else can I support my child?

Firstly, a positive attitude goes a long way – so as much encouragement and support as possible (but we don't need to tell you that)!

Some further tips:

- Make times tables fun;
- Climb stairs counting in multiples
- Play verbal times tables games
- Listen to and learn times tables songs
- Play online maths games
- Talk directly to your child's class teacher if you have any worries (try not to worry your child);
- Encourage your child to talk to you, their teacher, or another adult they trust, if they express persisting anxieties about the check.



# Key Information

- **The check will focus on what they know about times tables**

It doesn't reflect their understanding of wider mathematical topics.

- **The check is only 5 minutes long**

For most children, the check will last for a maximum of 5 minutes. When they have finished, they will not need to repeat the check, regardless of their final score.



# Thank you

Any Questions?