

# Maths at home



## Lower Key Stage 2

Supporting maths fluency at home

**Meddylwch  
eilwaith cyn dweud  
'Fedra i ddim  
gwneud maths'**

**Mae eich geiriau'n cyfrif!**  
With siarad â phientyn am fathemateg



**Think twice before you say  
'I can't do maths'**

**What you say counts!**  
When talking to a child about maths

**Unleaded**

The Media - 020 7233 9777

# Key Stage 2 Maths

In Year 1 and Year 2 children develop their understanding of numbers so that they can confidently count and calculate with numbers up to 100, including comparing quantities of money, time and other measurements. Children also learn to describe, draw and compare different shapes.

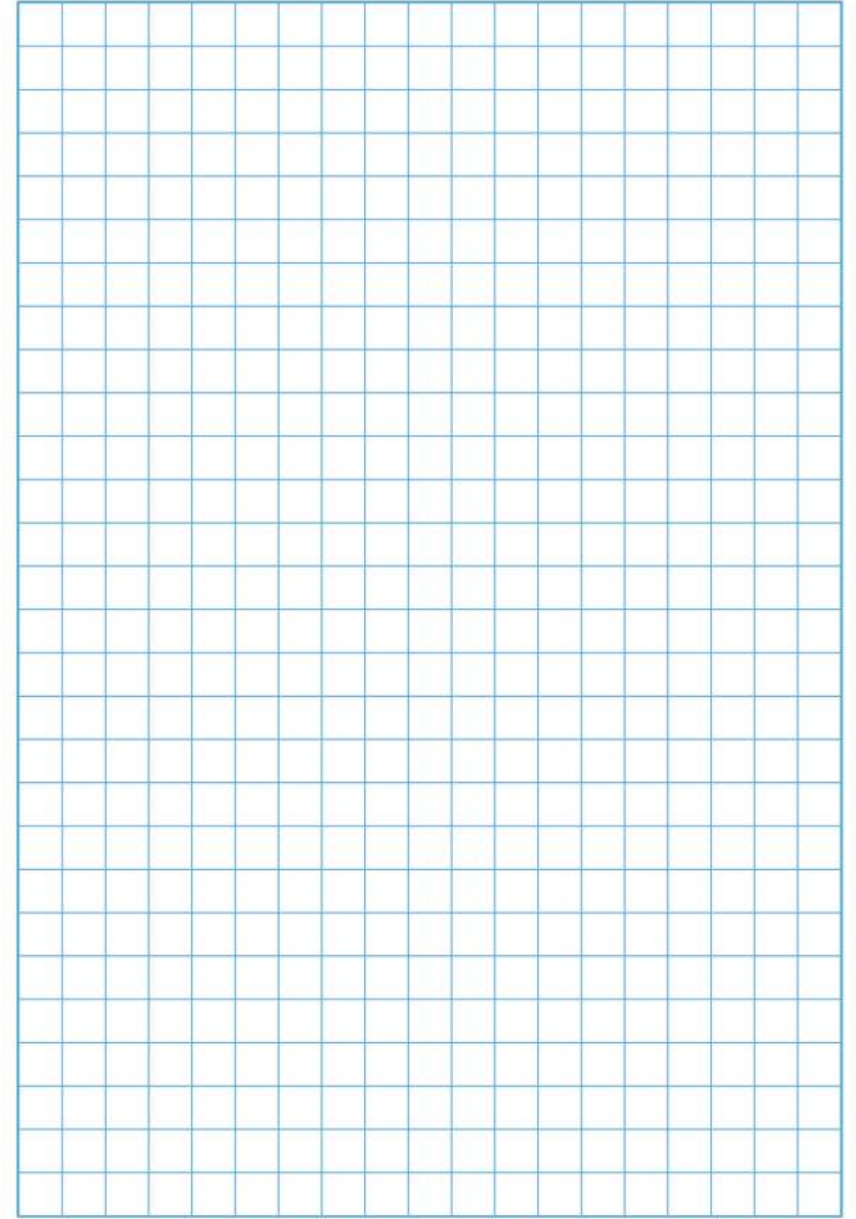
# Lower Key Stage 2

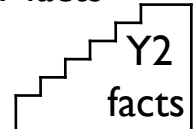
- The principal focus of mathematics teaching in lower key stage 2 is to ensure that children become increasingly **fluent with whole numbers and the four operations**, including number facts and the concept of place value.
- This should ensure that children develop efficient written and mental methods and perform calculations accurately with increasingly large whole numbers.
- At this stage, children should develop their ability to solve a range of problems, including with simple fractions and decimal place value.
- Children should start to identify relationships of number.
- By the end of year 4, pupils should have memorised their multiplication tables up to and including the 12 multiplication table and show precision and fluency in their work.
- Children should read and spell mathematical vocabulary correctly and confidently, using their growing word reading knowledge and their knowledge of spelling.

# Number

- Handwriting

0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10



Y1 facts  
  
 Y2 facts

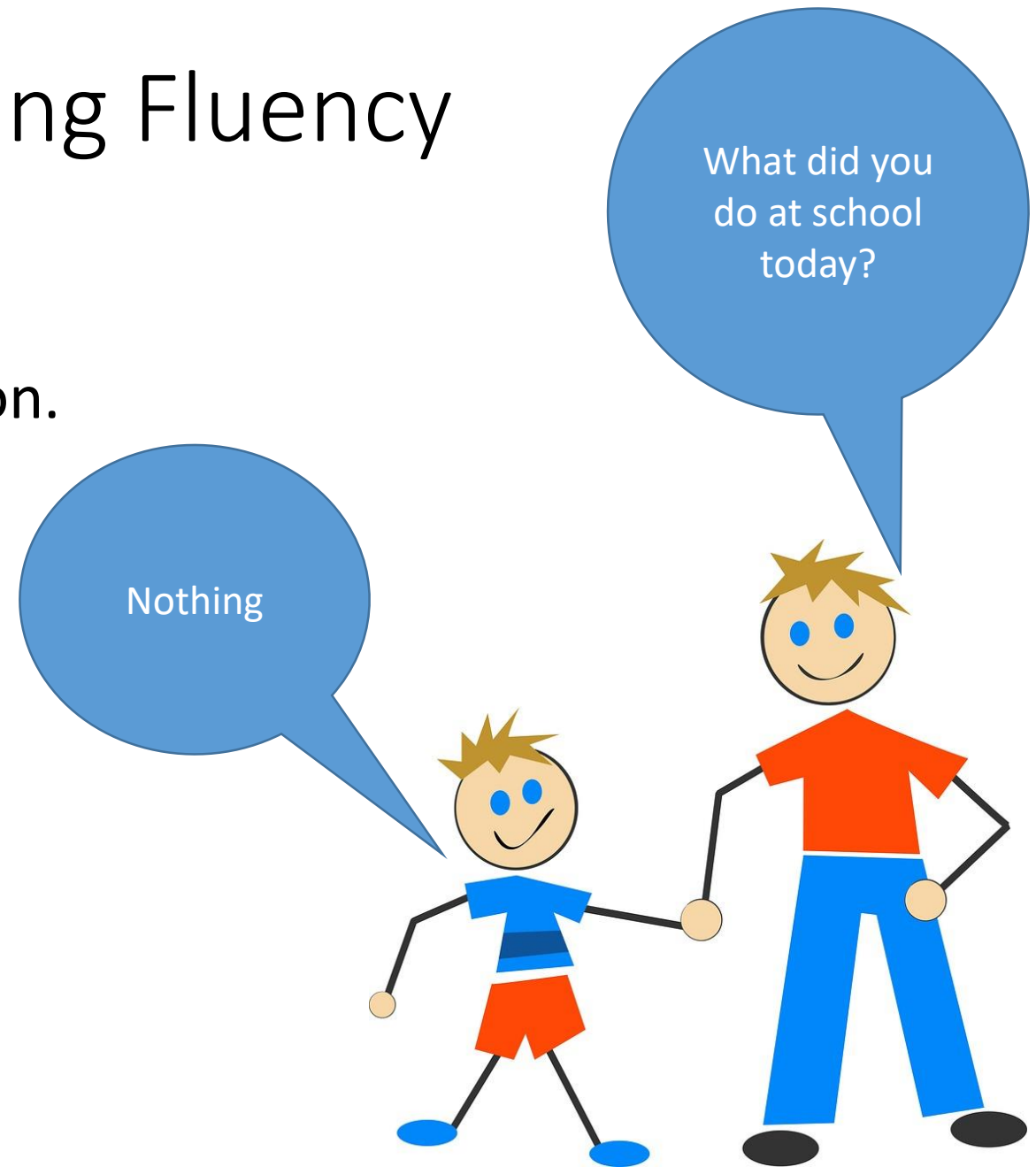
+	0	1	2	3	4	5	6	7	8	9	10
0	0+0	0+1	0+2	0+3	0+4	0+5	0+6	0+7	0+8	0+9	0+10
1	1+0	1+1	1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+10
2	2+0	2+1	2+2	2+3	2+4	2+5	2+6	2+7	2+8	2+9	2+10
3	3+0	3+1	3+2	3+3	3+4	3+5	3+6	3+7	3+8	3+9	3+10
4	4+0	4+1	4+2	4+3	4+4	4+5	4+6	4+7	4+8	4+9	4+10
5	5+0	5+1	5+2	5+3	5+4	5+5	5+6	5+7	5+8	5+9	5+10
6	6+0	6+1	6+2	6+3	6+4	6+5	6+6	6+7	6+8	6+9	6+10
7	7+0	7+1	7+2	7+3	7+4	7+5	7+6	7+7	7+8	7+9	7+10
8	8+0	8+1	8+2	8+3	8+4	8+5	8+6	8+7	8+8	8+9	8+10
9	9+0	9+1	9+2	9+3	9+4	9+5	9+6	9+7	9+8	9+9	9+10
10	10+0	10+1	10+2	10+3	10+4	10+5	10+6	10+7	10+8	10+9	10+10

print



# Home Learning Developing Fluency

- School year appropriate
- Opportunity to practice with variation.
- Securing skills
- Supported in school
- Ideas of activities
- Websites to support practicing skills



# What is the Multiplication Tables Check

The Multiplication Tables Check (MTC) is a key stage 2 assessment to be taken by pupils at the end of year 4 (in June). From the 2019 / 2020 academic year onwards. The purpose of the MTC is to make sure the times tables knowledge is at the expected level.

The MTC is an online test where the pupils are asked 25 questions on times tables 2 to 12. For every question you have 6 seconds to answer and in between the questions there is a 3 second rest. Questions about the 6, 7, 8, 9, and 12 times table come up more often. The questions are generated randomly based on the rules of the MTC.

By the end of Year 4 children are expected to know their times table facts up to and including 12x

There are 121 facts to learn...



# Learning times table facts

- What do your children need to know?
- Multiplication is repeated addition!
- Multiplication can be done in any order!
- Knowing these facts will have a significantly impact in your child's quick fluency.

# ttrockstars



- When it comes to times tables, speed AND accuracy are important – the more facts your child remembers, the easier it is for them to do harder calculations.
- Times Table Rock Stars is a fun and challenging programme designed to help students master the times tables!


# Times tables

Garage: These are targeted times tables for your child, when they have practiced a series of times Garage will become Gig to assess their progress.


Soundcheck: Just multiplication facts. 6 seconds per question.

**SINGLE PLAYER**


**MULTIPLAYER**




**GARAGE**  
Teacher Set




**STUDIO**  
12 x 12




**SOUNDCHECK**  
25 questions



**FESTIVAL**  
12 x 12



**ARENA**  
Teacher Set



**ROCKSLAM**  
12 x 12 **19**

**GARAGE**

Tables:  
Teacher Set

Play solo

10 per correct answer

**PLAY**

# Maths through Play!

- “What books are to reading, play is to mathematics. In a home full of blocks, puzzles, game and play is a home where mathematical thinking can flourish!”

Mathopoly



Head Full of Numbers



Pay Day Board Game



Pizza Fraction Fun Game



Sequence Numbers



Equate



# And more games...

- Battleships
- Rummikub
- Rummy (card games)
- Snakes and ladders
- Countdown
- Bingo (4 operations rules +, -,  $\times$ ,  $\div$ )
- Scavenger hunt e.g. find something in the garden that is 10cm long, 25oz etc.
- Yes/No game (e.g. is your number a multiple of 3 etc)
- Timestable hopscotch (roll a die to decide the timestable)

There's various apps children could use as well but they will have a much richer learning experience playing with you.

- **Dice Games** – are fun, easy to play and a great way of practicing maths skills. For a comprehensive list of traditional dice games have a look at [https://en.Wikipedia.org/wiki/List\\_of\\_dice\\_games](https://en.Wikipedia.org/wiki/List_of_dice_games)
- **Playing Card Games** – games with playing cards can be a great way to help your child develop a wide range of maths skills from number recognition to decision making. Playing games like Snap or Pairs can be a great way to engage younger children, whereas Uno or Top Trumps might appeal to slightly older children. For a list of card games for you to try, take a look at [www.primarygames.com/puzzles/card\\_games.php](http://www.primarygames.com/puzzles/card_games.php)
- **Puzzles and problems** - Spot the difference, Dot-to-Dot, painting by numbers, Sudoku and crossword puzzles can also be great ways to develop your child's number awareness and problem solving skills.
- Construction games / board games / making your own board game / maths songs and rhymes / maths story books / online maths games
- <https://matr.org/blog/fun-maths-games-activities-for-kids/>