22/09/25

Times table lesson for parents – Lunch and Learn

Parents - welcome to 3B

ACTIVITY 1

Children, whilst I talk to Mum and Dad, with a partner, please log yourselves on to your TTRS accounts.

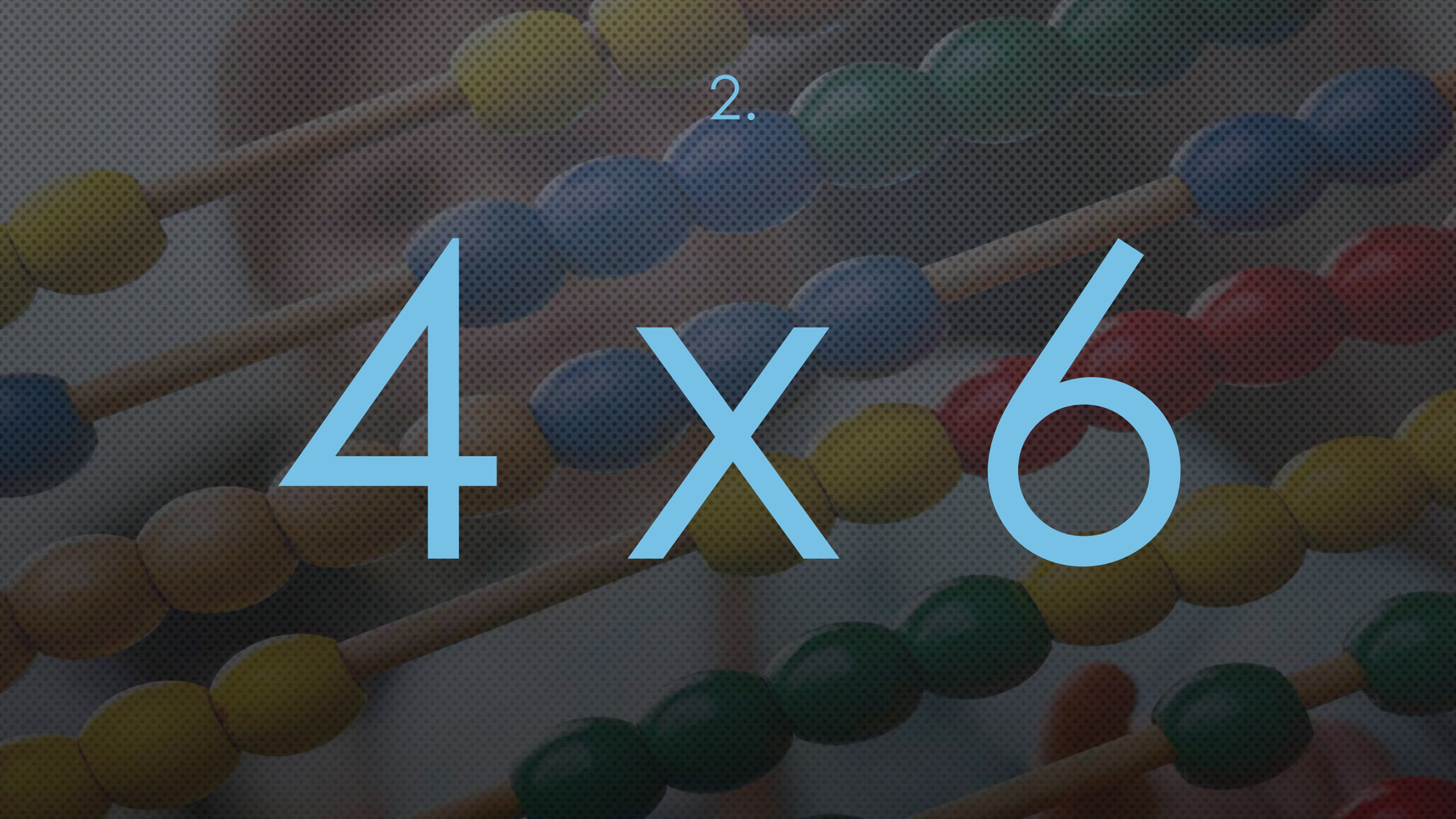
Whilst they do that – I'd like you to think about your own times table knowledge – did you know them all at age 7/8?

So, children – let's stop and watch Mums and Dads with their number fans!
Parents I am going to ask you some times table questions. Using the number fan I'd like you to flash up the answer to the question!
The fastest earns 5 housepoints for their child!

1.

3 x 5


15


2.
4 x 6


24

3.

12×9


108

4.

9×6


54


5.
6 x 8

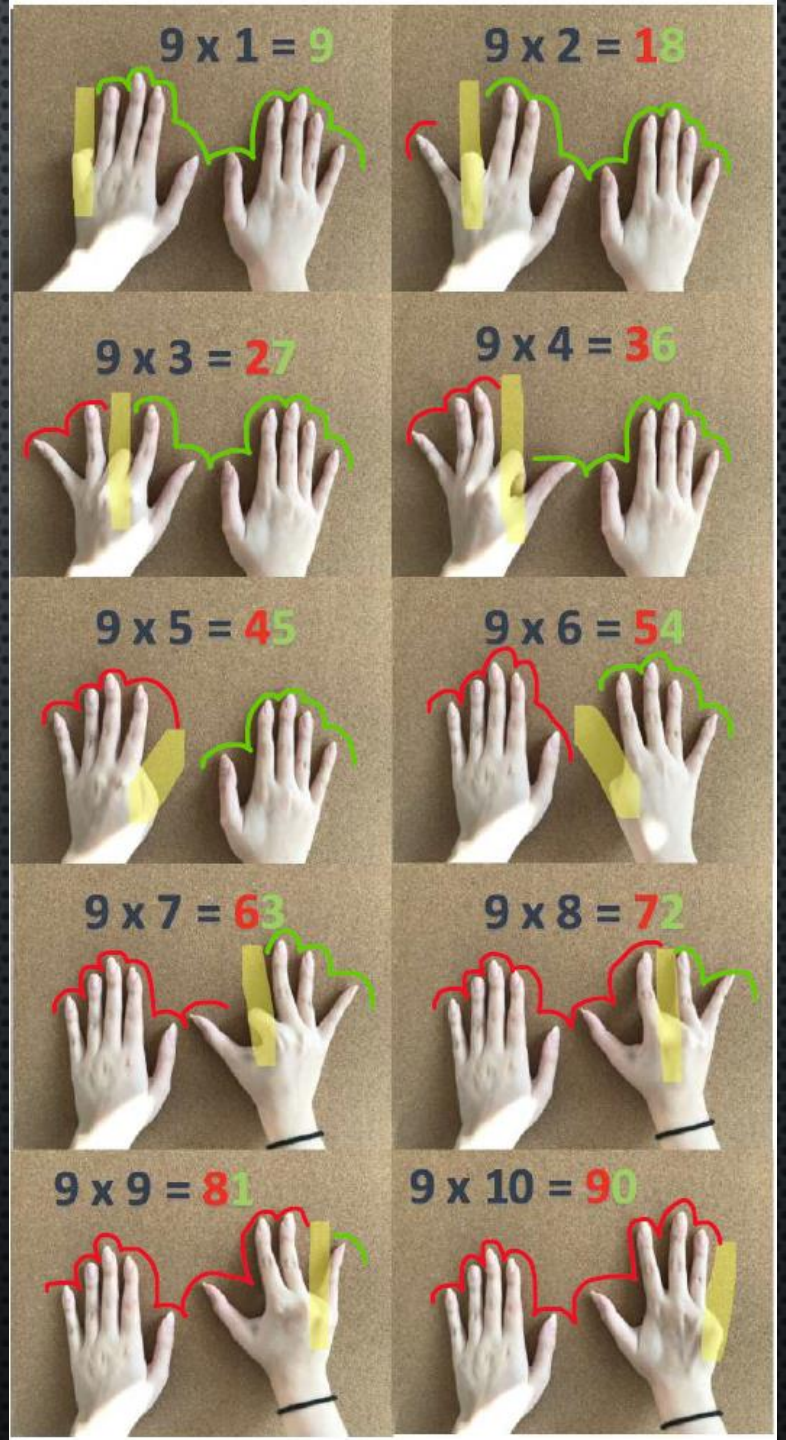

48

Using existing knowledge:

Doubling: If you know 2x tables, use it to calculate 4x tables
Same for 3x and 6x, 4x and 8x, 5x and 10x etc.

9x table 'hand' trick – see right →

Commutativity – it works both ways!
If you know 3 x 4 =12, then you know 4 x 3 = 12 and so on…(we'll come back to this later on).



Sometimes, for some children, the old ways are still the best way…

If you know your 2 times table, also can work out their multiplication facts for 4 by doubling their answer for 2 e.g. 6×2=12 so 6×4=24. 24 is double twelve. SO…When you've learnt the 4 times table, you can use exactly the same process as Hack 1 to calculate the 8s. Double the answer.

Use the 'hand trick' to work out the 9 times table.
Another way to remember your 9s is by working out what 10 multiplied by the number would be and then subtract the number e.g. 4×10=40 40-4=36 so, 4×9=36.

Look for patterns. Ask your child to notice what the pattern is for the ten times table (always ends in a 0, the first digit(s) go up in ones), the 5 times table (always ends in a 5 or a 0) and the 11s (up to 9×11 just double the digit e.g. 5×11=55).

If you know your 3 times table, you also know your 6 times table – you just double the answer, just like in Hacks 1 and 2.

Get a multiplication square and highlight the ones with which they are confident. This will narrow down the numbers and make the task seem more manageable.

RHYME/MUSIC is still the way forward!!

Other ways children can start to rehearse their times table knowledge – modern song chanting…

ACTIVITY 2

Children – please stop and log out!

Can you now write out up to 12 x the number, the times tables as follows

1* - 10 x table 2* - 11 x table
3* - 6 x table

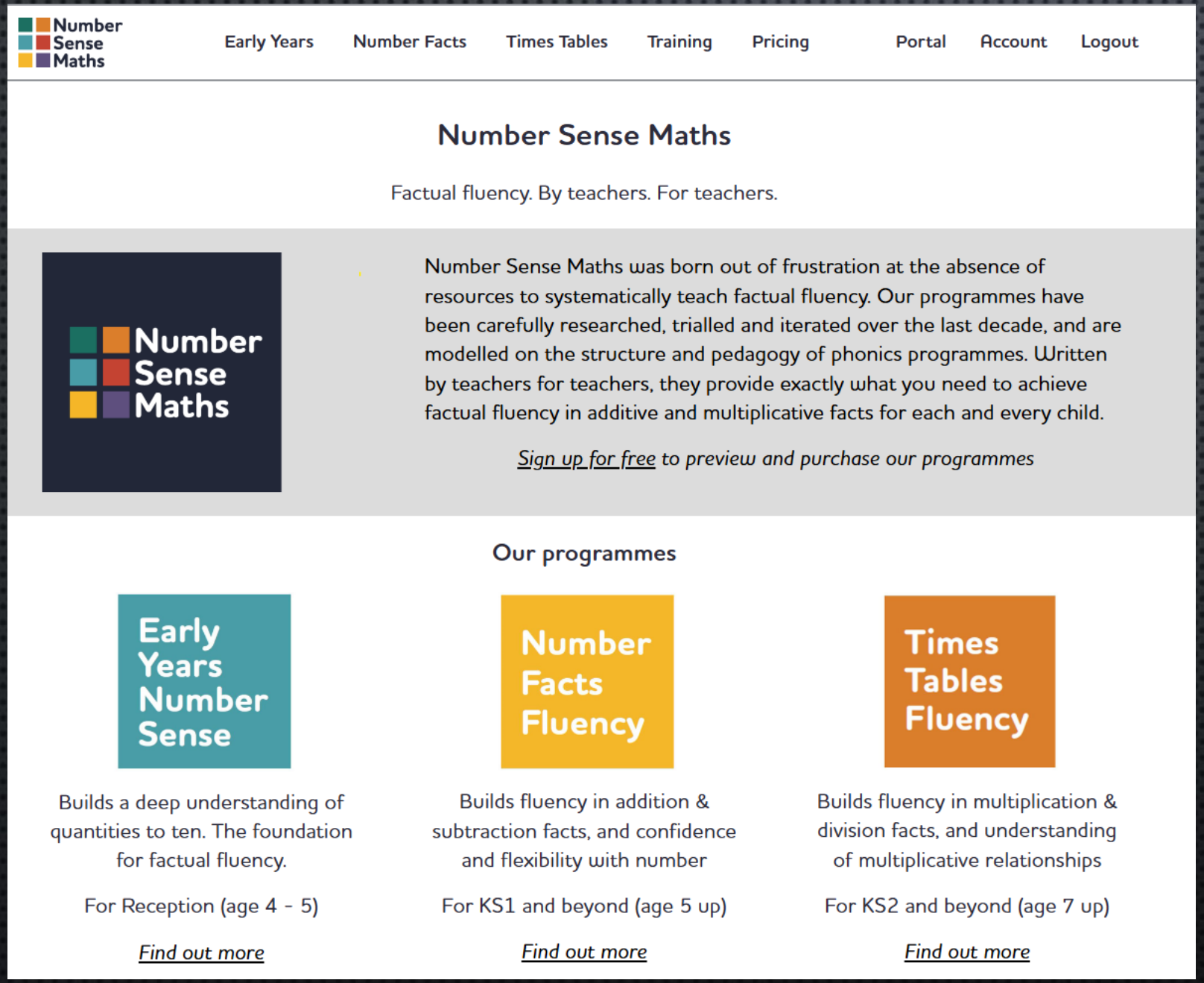
e.g

1 x 6 = 6
2 x 6 = 12
3 x 6 =

Whilst you do that I am going to speak to Mums and Dads again!

So what are school doing to support?
Number Sense -Times Tables Fluency Programme

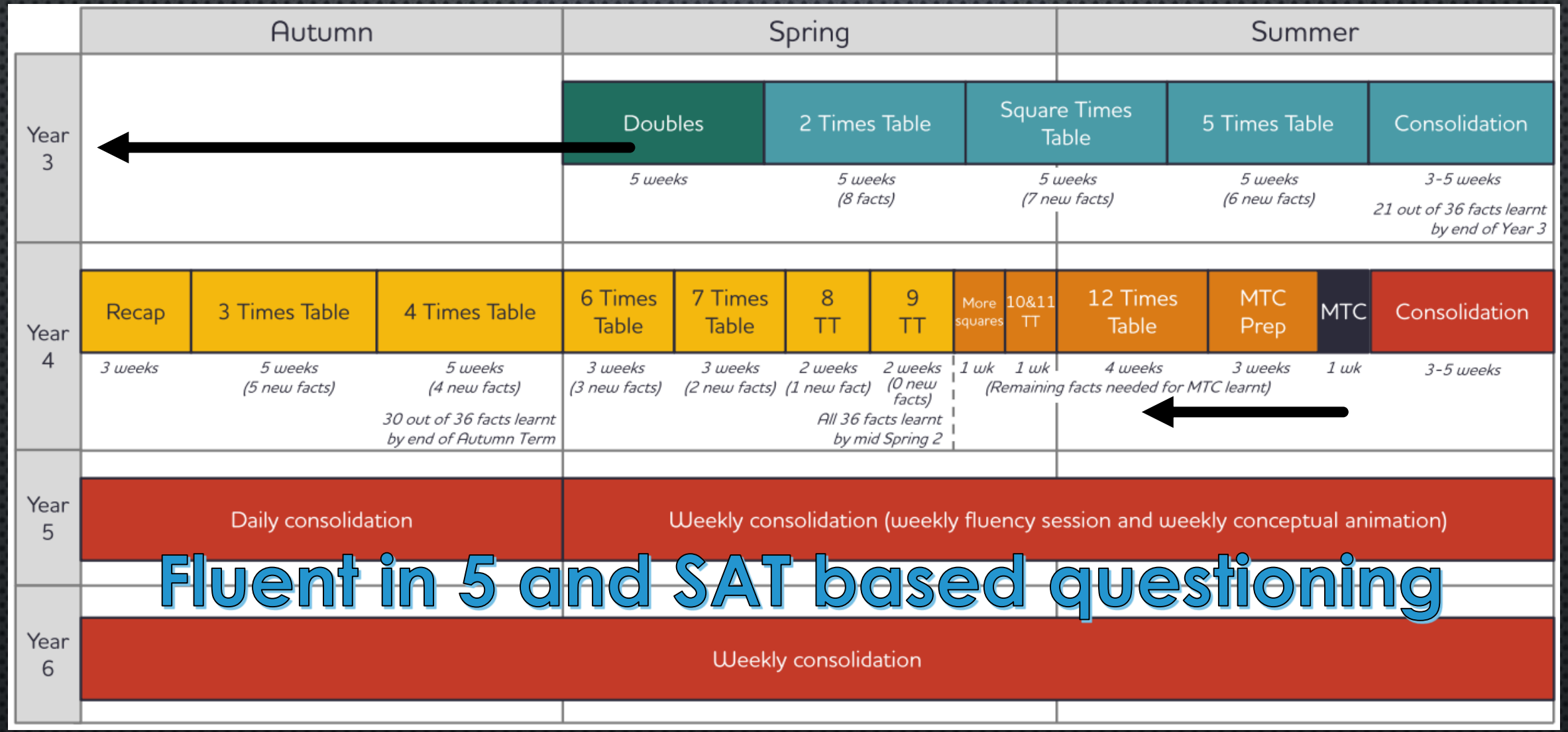
- The Times Tables Fluency Programme teaches fluency in essential multiplication and division facts and concepts.
- At the core of the programme are 36 essential times table facts. The programme focuses on developing understanding and recall of these 36 facts, and on using them to know the commutative multiplication facts up to 9 x 9 and the inverse division facts.
- Later in the programme, in preparation for the Year 4 Multiplication Tables Check, the 11 and 12 times tables are also taught in a lighter touch way, as well as practice of the 10 times table.



A new approach to the teaching of multiplication tables at NJS.

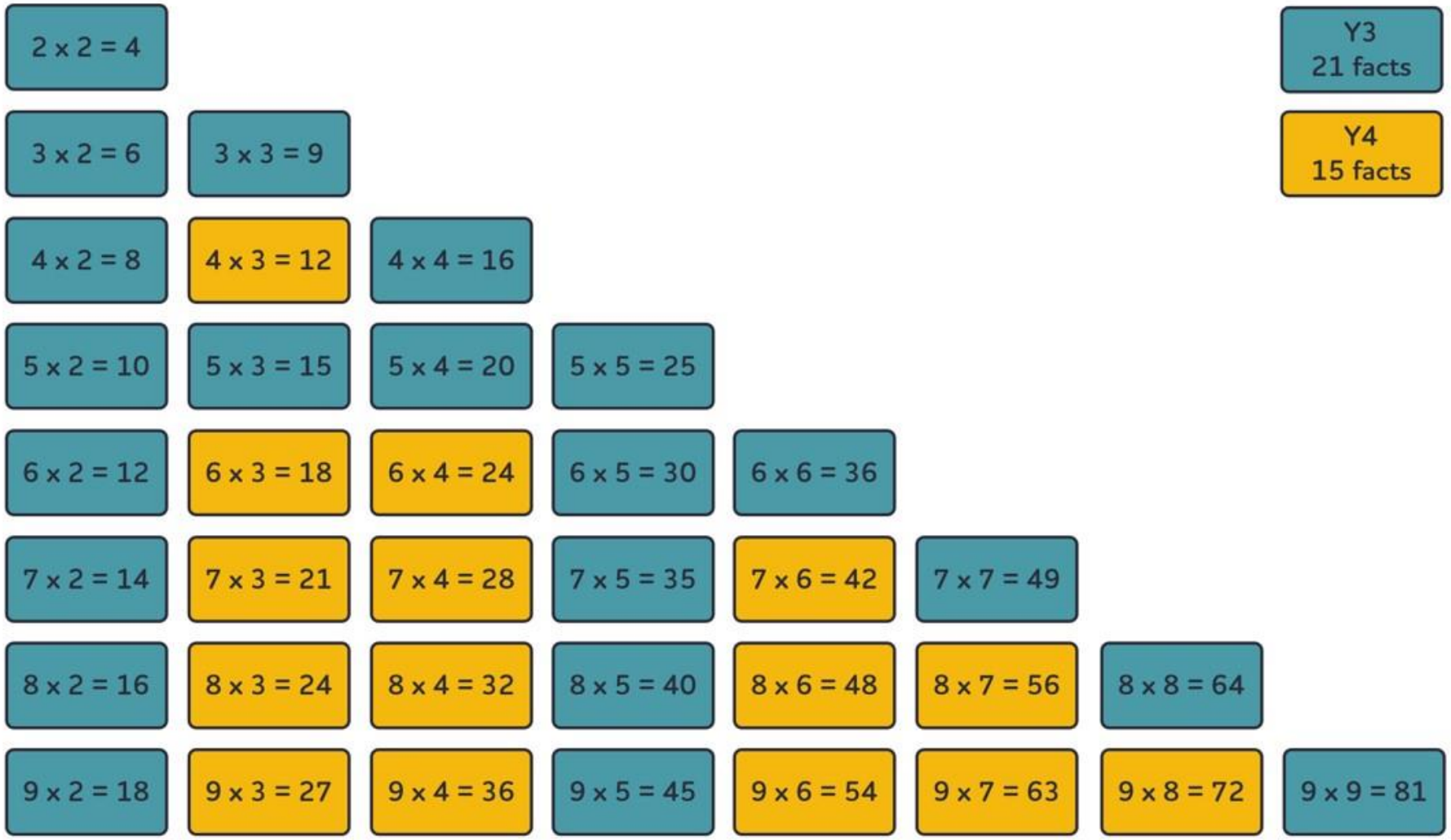
Research backed programme design, created to develop automaticity in the fluent recall of times tables.

This was used at NIS so the children are familiar with the structure of these sessions.



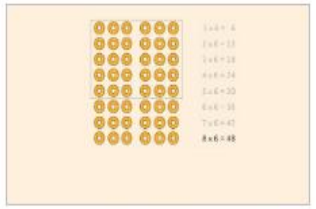
Fluent in 5 and SAT based questioning

Systematic approach designed not to overload children with too many facts, but instead build on pre-existing knowledge of times tables. Ample time given for children to rehearse & consolidate new knowledge. "***Teaching, not just testing…***"

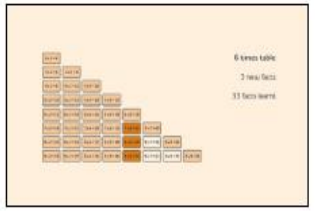

2 x 2 = 4
3 x 2 = 6
3 x 3 = 9
4 x 2 = 8
4 x 3 = 12
4 x 4 = 16
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
6 x 2 = 12
6 x 3 = 18
6 x 4 = 24
6 x 5 = 30
6 x 6 = 36
7 x 2 = 14
7 x 3 = 21
7 x 4 = 28
7 x 5 = 35
7 x 6 = 42
7 x 7 = 49
8 x 2 = 16
8 x 3 = 24
8 x 4 = 32
8 x 5 = 40
8 x 6 = 48
8 x 7 = 56
8 x 8 = 64
9 x 2 = 18
9 x 3 = 27
9 x 4 = 36
9 x 5 = 45
9 x 6 = 54
9 x 7 = 63
9 x 8 = 72
9 x 9 = 81
Y3
21 facts
Y4
15 facts

Start of unit lesson animations

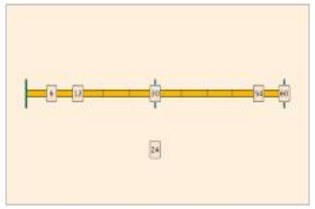
Please note: the animation playback speed can be changed by clicking on the settings cog when you launch the animation



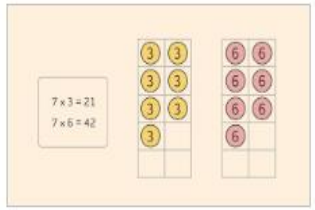
Constructing the 6 times table



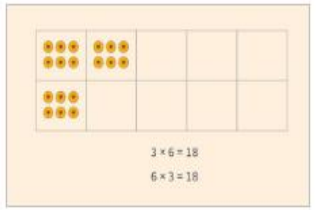
Facts build up



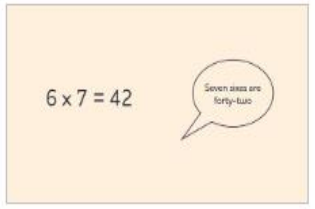
Deriving multiples of 6



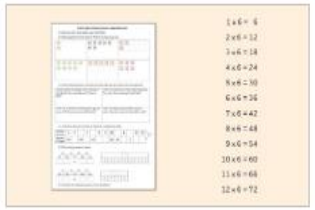
Doubling 3s



Writing 6 times table facts

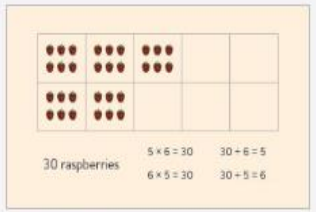


Oral rehearsal of new facts

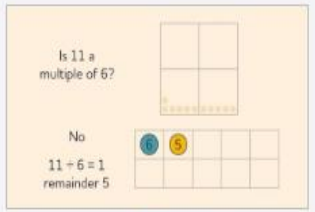


Prompts for independent work

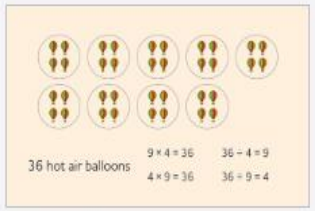
End of unit animations



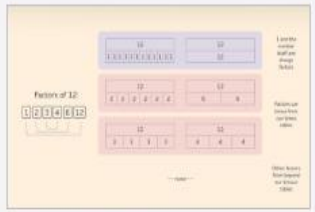
Groupitising



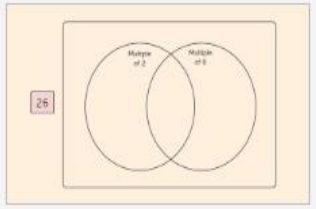
Is this a multiple of 6?



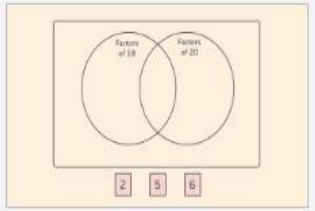
Cumulative groupitising



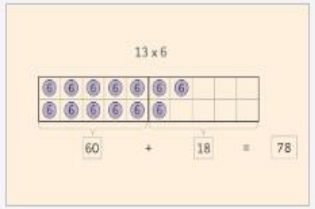
Factor families



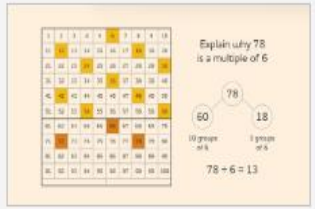
Multiple Venn



Factor Venn



Times by a teen



Hundred square

High visual approach, enabling children to develop an understanding of how products are formed and where patterns lie within multiplication tables.

Animations are used to show how structures are formed and developed, not just relying on children memorising masses of facts.

Daily practice is designed to develop fluent recall and procedural efficiency.

WHY ARE TIMES TABLES IMPORTANT ACROSS KS2?

- KNOWING THE TIMES TABLES (AND THEIR ASSOCIATED DIVISION FACTS) SUPPORTS MATHEMATICAL LEARNING AND UNDERSTANDING
- CHILDREN WHO HAVE A STRONG GRASP OF TIMES TABLES TEND TO BE MORE SELF-ASSURED WHEN LEARNING NEW CONCEPTS
- WHEN CHILDREN KNOW THEIR TIMES TABLES, MENTAL ARITHMETIC BECOMES EASIER
- PRACTISING TIMES TABLES ALSO HELPS CHILDREN TO UNDERSTAND NUMBER AND NUMBER RELATIONSHIPS, AND TO SEE PATTERNS IN NUMBERS

So, in class we use the songs, TTRS, play Kims Game with times tables (hiding answers) and have a big focus on times tables.

Children have access to a multiplication grid on their maths books.

Multiplication Chart

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

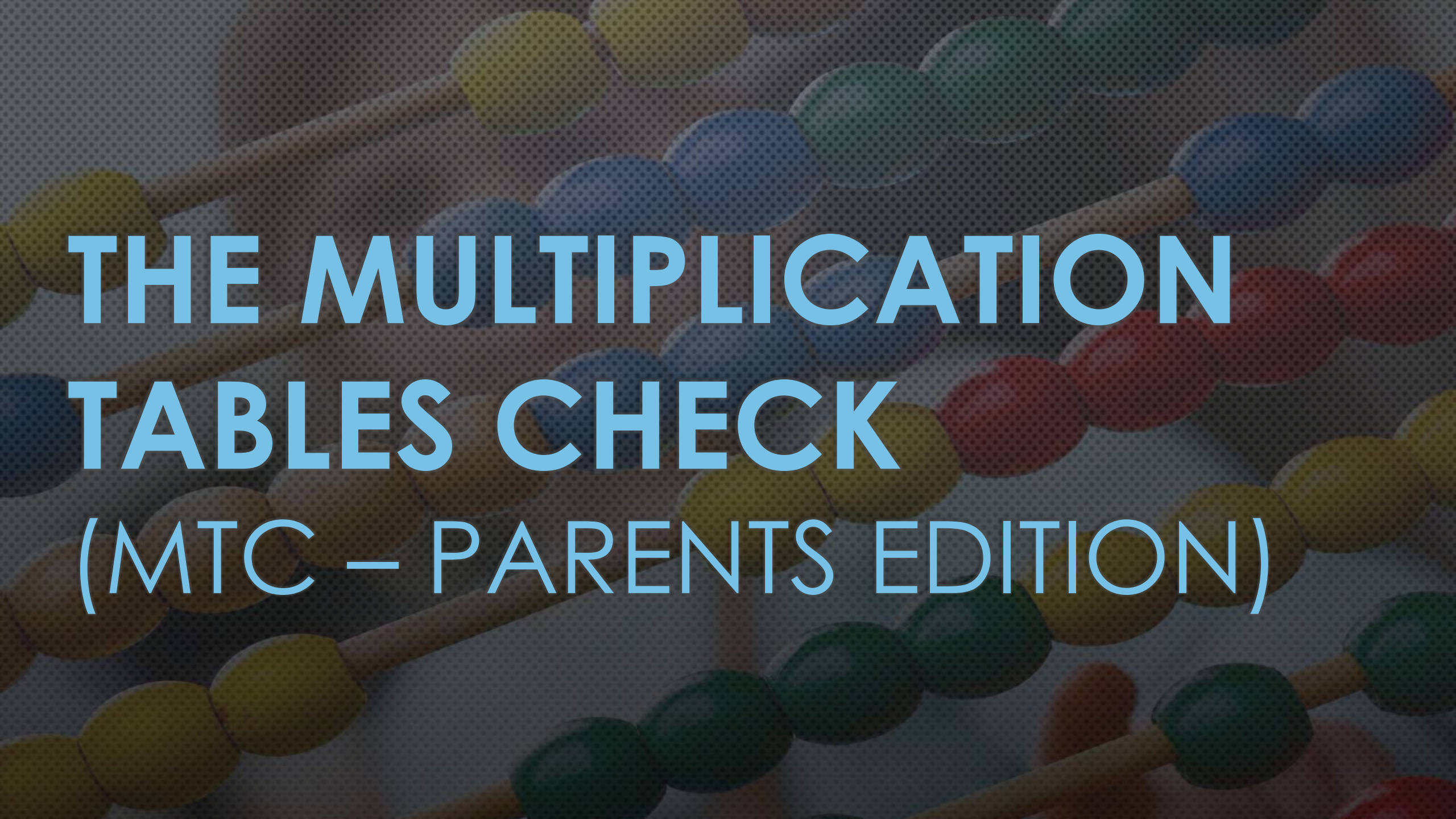
A multiplication mosaic is an image hidden by multiplication questions – you must solve the question and colour the box the right colour to reveal the image! e.g if the box said 2x5 and any box with the answer 10 had to be coloured red then this box would need to be red.

ACTIVITY 3

Complete a multiplication mosaic using the specific colours given.

Multiplication Chart

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144


THE MULTIPLICATION TABLES CHECK
(MTC – PARENTS EDITION)

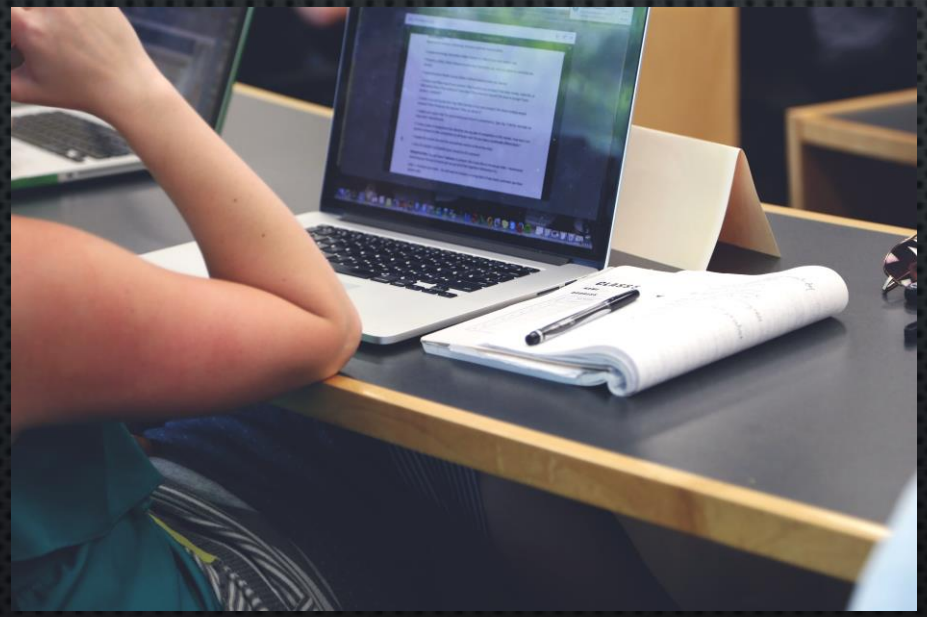
WHAT IS THE MTC?
(MULTIPLICATION TABLES CHECK)

- It's a national test for Year 4 students

WE'RE NOT WORRIED

- Under the national curriculum primary school children are expected to know their 12 times tables by the end of Year 4.

- So we're preparing students to know their times tables by the end of Year 4 for and we are not concerned about the check at all



THE PRACTICALITIES

THE CHECK ITSELF.

- Takes place in June
- Is done on a tablet or computer
- Will take no longer than 5 minutes
- There are 25 questions
- Pupils have 6 seconds to answer each question
- There's no problem solving or division just simple "3 x 4 = ?" type questions
- There is **NO PASS OR FAIL MARK**
- Results are **NOT PUBLISHED**

1/25

Back

Time left: 5

$6 \times 11 =$

1	2	3
4	5	6
7	8	9
C	0	Enter

NO STRESS

- Government has called it a "**CHECK**" rather than a "test" or "exam" for a reason.
- Please be **SUPPORTIVE** of our approach and refrain from talking about the checks at home but do support with homework and the "extra" times table work and TTRS battles that we set – we are doing this for a reason!!

HOW YOU CAN HELP YOUR CHILD?

PRACTISE AT HOME
We will of course continue to teach the full curriculum and would love your continued support to **HELP PRACTISE** the times tables with your children.

Some easy ways to do this include:

- **ASKING QUESTIONS** such as "What's 7 x 8?"
- reciting times tables by **ROTE** (4 times 1 is 4, 4 times 2 is 8, etc)
- **SINGING** times tables songs (there are loads online)
- using **APPS AND GAMES** (like TTRS / Emile)

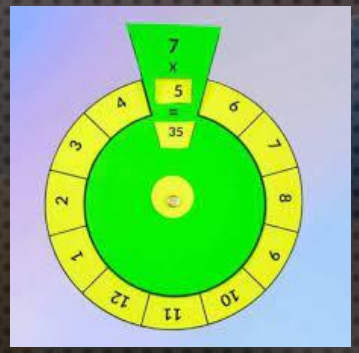
TTRS

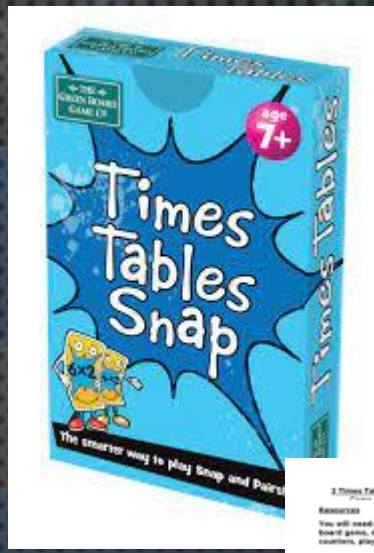
- We have signed up for TTRS and all children have access to this.
- First half term was a practice and a get to know the APP – now it'll become part of their weekly homework and challenges and battles will be set.
- We will be setting activities/times tables suited to your child and this produces a heat map – showing us what your child specifically needs to work on – don't be alarmed if they stay on "easier times tables" for a couple of weeks.

OTHER USEFUL RESOURCES OR GAMES:

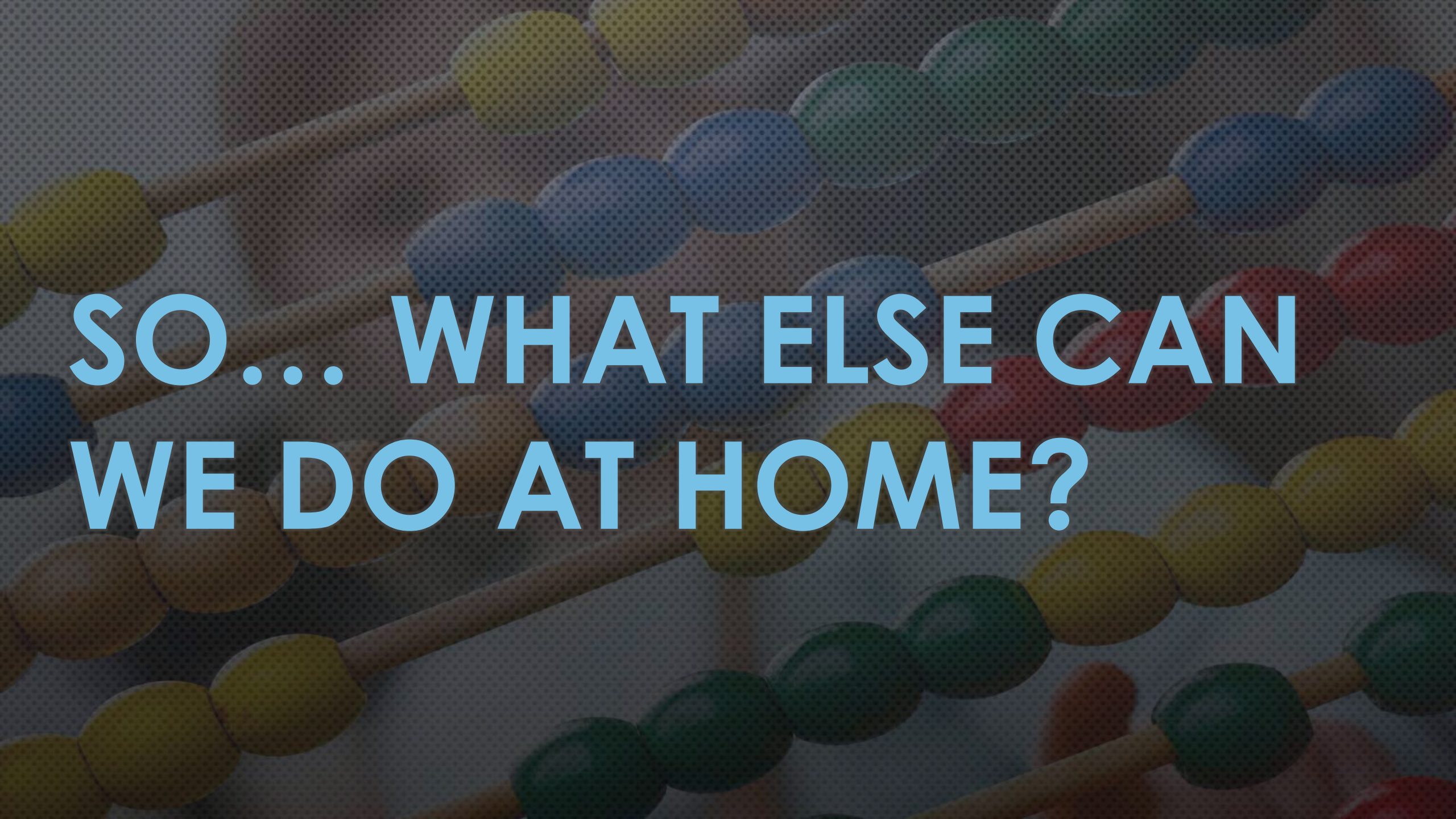
- MATCHING GAMES/CARDS
- HOMEMADE BOARD GAMES
- MULTIPLICATION SNAP
- BEDROOM POSTERS

- SPIN WHEELS!





MAKE A MULTIPLICATION SPIN WHEEL TO HELP CHILDREN LEARN AND TEST THEMSELVES ON THEIR TIMES TABLES. SPINNERS ARE AVAILABLE IN EVERY TIMES TABLE. USE A SPLIT PIN TO JOIN THE WHEEL TOGETHER.
PARENTS FEEL FREE TO JOIN IN, COLLECT RESOURCES FROM THE SPARE TABLE AND ASK ANY SUITABLE QUESTIONS.


SO… WHAT ELSE CAN
WE DO AT HOME?

- Print out and laminate the times table mats , alternatively print out and displa the large times tables poster to aid solving times tables questions (both up to 12 x 12). (Tip - Create a handy travel size times table kit by cutting up the individual times tables from the mat, punching a hole through the corner of each then attaching together with a treasury tag).
- There are various versions of the multiplication square to help children solve multiplication calculations. This square also helps children to see number patterns within the various different times tables.
- Use these great 1 to 12 Times Tables Wheel Cut Outs to learn and practise all times tables. Children can check their own work using the answers.
- Print out the cards containing individual calculations and answers to help childre learn their 3 times tables. You could also separate the sums and answers and turn this into a matching up activity. Cards come in sets for each times table.
- The Multiplication Wordsearch Worksheets test children on a range of questions within each times table. Children must then find the number word answer in the word search. These sheets are available for each times table.
- The Times Tables Matching Cards cover a selection of different times tables. Print out and laminate the cards, face them down and ask your child to try and pick 3 matching cards. One correct set will include the question, number answer and number word answer.

- There are different loop card sets covering 2, 5 and 10 times tables, 3 and 4 times tables, 6, 7, 8 and 9 times tables and the 6 and 8 times tables. These can be used like dominoes. See if your child can get back to where they started!
- These Multiplication Flash Cards come in sets up to 12 x 12. Test your child on individual times tables or a range of times tables to speed up mental recall.
- Building A House Multiplication Activity is a fun and creative way of learning times tables. A little like colour by numbers but with glue and scissors! This sheet comes in various times table versions.
- Colour by Multiplication is a creative way of practising times tables. Once completed, can your child create their own colour by multiplication sheet?
- The Multiplication Colour And Roll game is great for helping children think of multiples of different numbers. Roll the dice and colour a multiple of that number. The play with the most numbers coloured wins! (up to 2-6 times tables only) The harder version covers multiples of numbers up to 12 by rolling 2 dice.
- To work on any times table, play the Multiplication Race Board Game to speed up mental recall.
- Make a Multiplication Spin Wheel to help children learn and test themselves on their times tables. Spinners are available in every times table.
- Become familiar with different words which mean the same as 'times' using these maths vocabulary cards.
- Use the acorn times tables matching cards to match the question and answers together. These cards cover the 2, 3, 5 and 10 times tables.

Here are a couple of bits for MTC that might be of use:

https://youtu.be/ct5cDctLVTI?si=Wpw4nxe77SI49Jme – YouTube Video put out by the DfE.

https://www.theschoolrun.com/year-4-multiplication-tables-check-mtc-explained - A parent friendly website explaining everything you need to know about the MTC.

https://www.gov.uk/government/collections/multiplication-tables-check - The official government information about it.

https://newportjuniorschool.org.uk/yr-4-parents-important-mtc-info/ - This is the website post we put out for the parents last year, which includes a booklet attachment for parents on how you can help at home.