



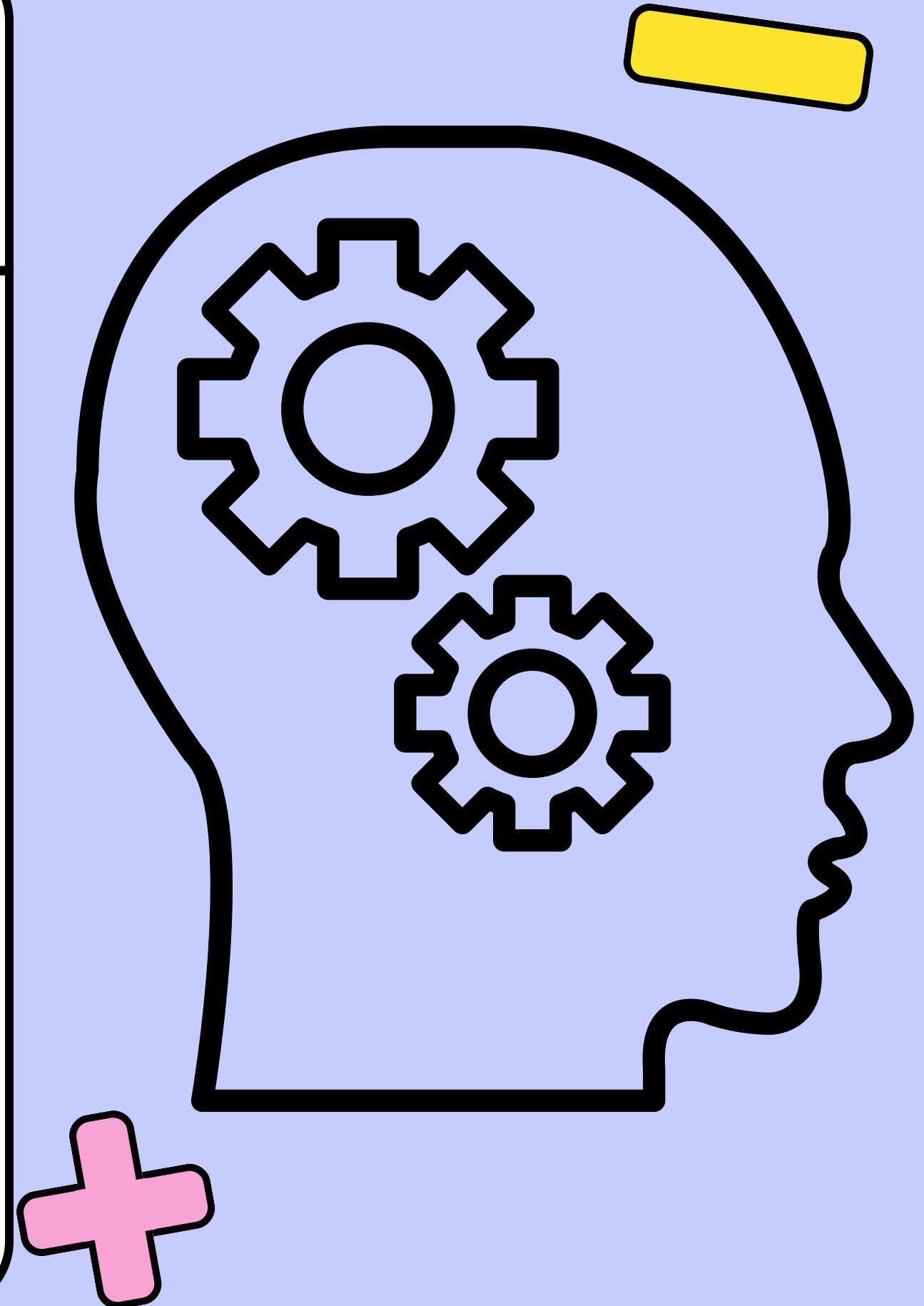
# Strategies to support Mental arithmetic

Tips and techniques to support your children with Maths



# Why is mental Maths important?

- Reduces cognitive load
- Enables children to focus on new teaching
- Helps children retain key facts into their long term memory
- The year 4/5/6 curriculum relies on core mental skills
- Government assessments test this key skill





# Strategies we use in school

## Times Tables

Times tables are first taught explicitly in Year 2 but the building blocks begin before this.

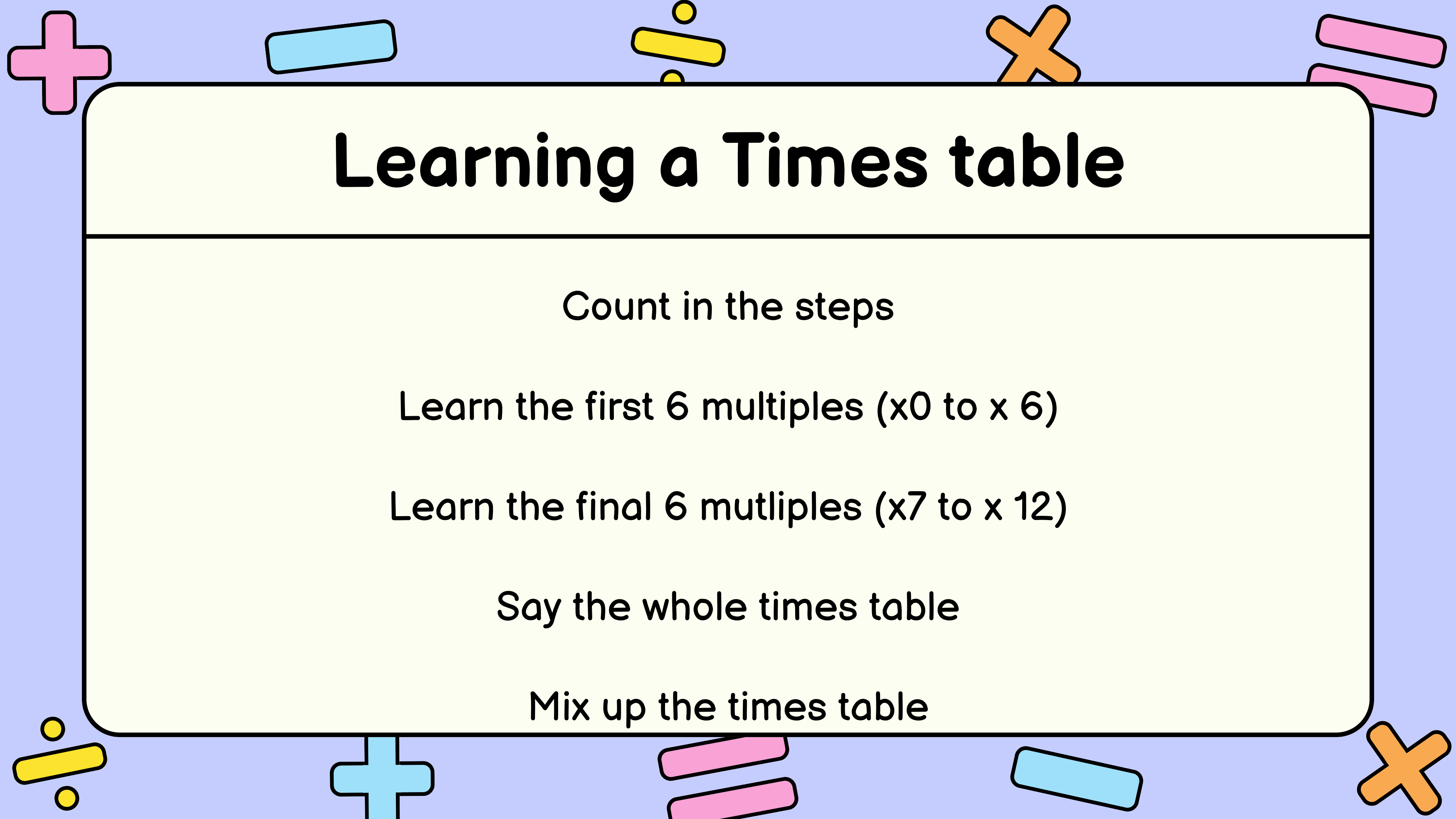
Total Recall initiative

The CLIC part of our Maths lesson

Explicit lessons in the Year 2, 3 and 4 curriculum to practise and learn times table facts

TTRockstars





# Learning a Times table

Count in the steps

Learn the first 6 multiples ( $\times 0$  to  $\times 6$ )

Learn the final 6 multiples ( $\times 7$  to  $\times 12$ )

Say the whole times table

Mix up the times table





# TOTAL RECALL

Number bonds to 5

One more, one less to 10

Number bonds to 10

One more, one less to 20

Number bonds to 20

Doubling and halving to 20

Crossing boundaries + and -

Number bonds to 100

Times Tables 2x, 5x, 10x

Times Tables 3x, 6x, 4x, 8x

Times Tables 7x, 8x, 11x

10x table plus total recall of all times tables and number bonds to 100









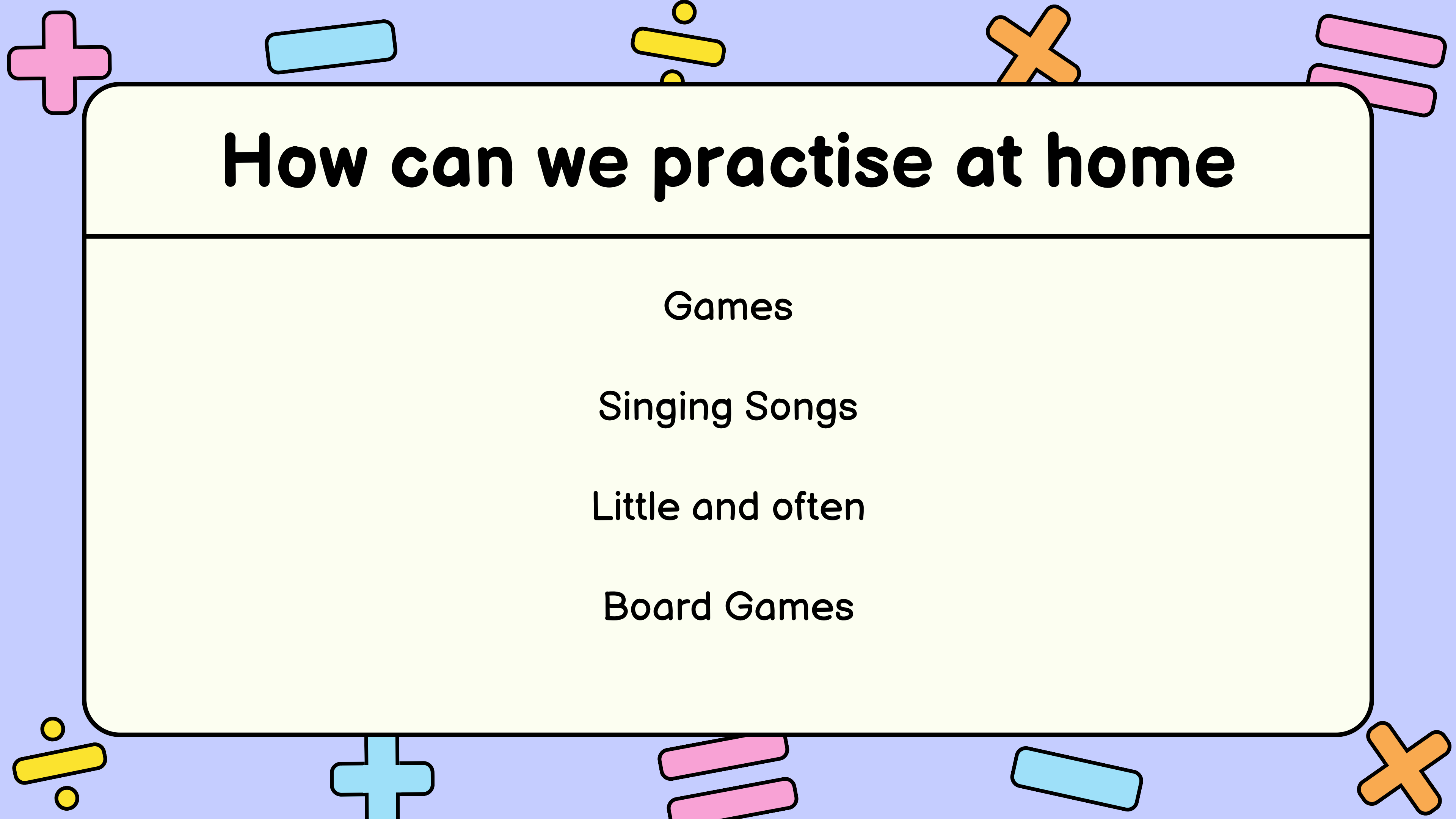


**Zebra** - division tables facts 2, 3, 4, 5/10 and 11.  
**Tiger** - division tables facts 6, 7, 8, 9 and 12.  
**Leopard** - multiplying and dividing whole and decimal numbers by 10, 50, 100 and 1000.  
**Polka Dot (Shape)** - names and describing properties of 2D and 3D shapes. Use terminology (face, edge, vertex).  
**Rainbow (Time)** - days in a week, months in a year, seconds, hours, minutes; tell the time to 5 minutes on a 12 hour and 24 hour clock.  
**Half** - fractions and percentages of numbers up to 100 and multiples of 10/100, e.g., 11 of 50, 20% of 44, 1/4 of 100.  
**Colour** - equivalent fractions, decimals and percentages including tenths, fifths, thirds, halves and quarters, recognising equivalents with hundredths, e.g., 3/40 / 40% / 40/100.

# Total Recall

# Times Table Facts

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



# How can we practise at home

Games

Singing Songs

Little and often

Board Games





# Example Games

Snap

Shout it out - card game

Tennis for tables

Dice games

Memory Game

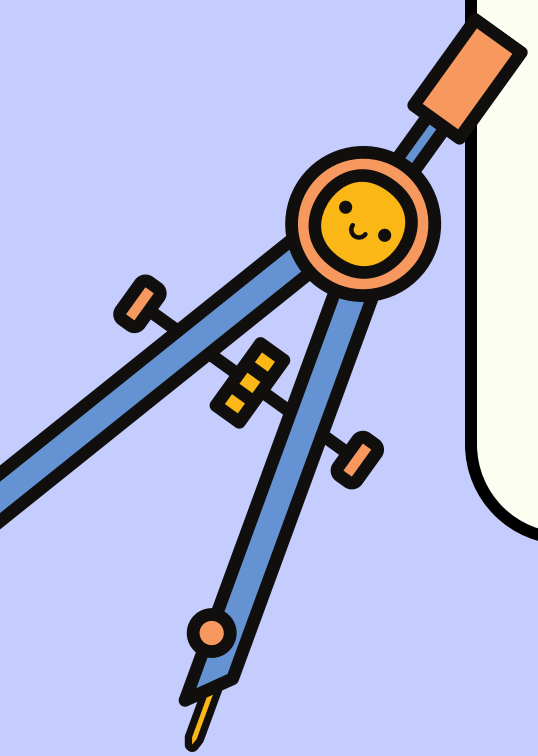
Grouping/Sorting objects e.g. cars/raisins

Silly sentences

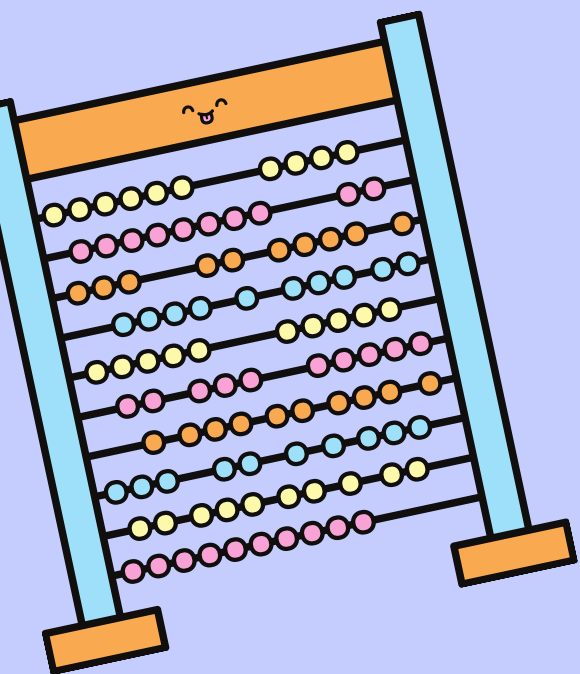
Bingo

Number plate game





# White Rose Maths App



1-minute  
MATHS

White  
Rose  
Maths



× Multiplication

÷ Division

÷ Subitising

+ Addition

- Subtraction

× Multiplication

÷ Division