Multiplication & Division Mastery

Building Strong Foundations

Multiplication and division are more than times tables – they are the keys that unlock the rest of maths.

By the end of Year 2, pupils should:

- Recall and use multiplication and division facts for the 2, 5 and 10 times tables.
- Recognise odd and even numbers.
- Calculate mathematical statements for multiplication and division within the tables they know and write them using the ×, ÷ and = signs.
- Show that multiplication can be done in any order (commutative), but division cannot.
- Solve problems involving multiplication and division, including using arrays, repeated addition, mental methods, and multiplication and division facts.

By the end of Year 4, pupils should:

- Recall multiplication and division facts for all times tables up to 12 × 12 fluently.
- Use place value, known facts and derived facts to multiply and divide mentally.
- Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.
- Solve problems involving multiplying and adding, including integer scaling problems and harder correspondence problems (e.g. "n objects are connected to m objects").

Multiplication Tables Check (MTC)

- Online check of 25 questions.
- 6 seconds per question.
- Assesses rapid recall of multiplication facts up to 12 × 12 without relying on methods or counting.
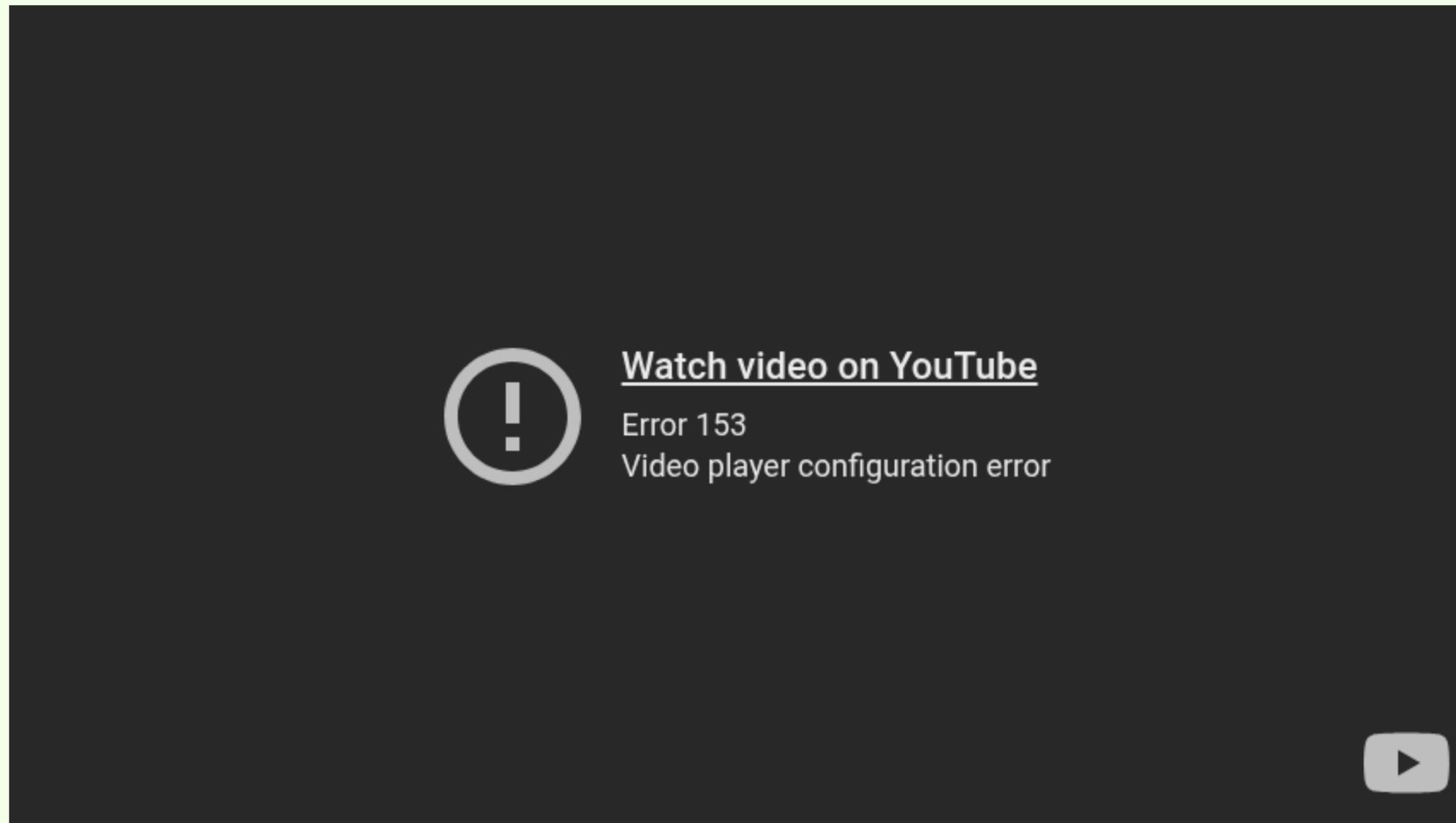
The Progression Journey for Multiplication & Division
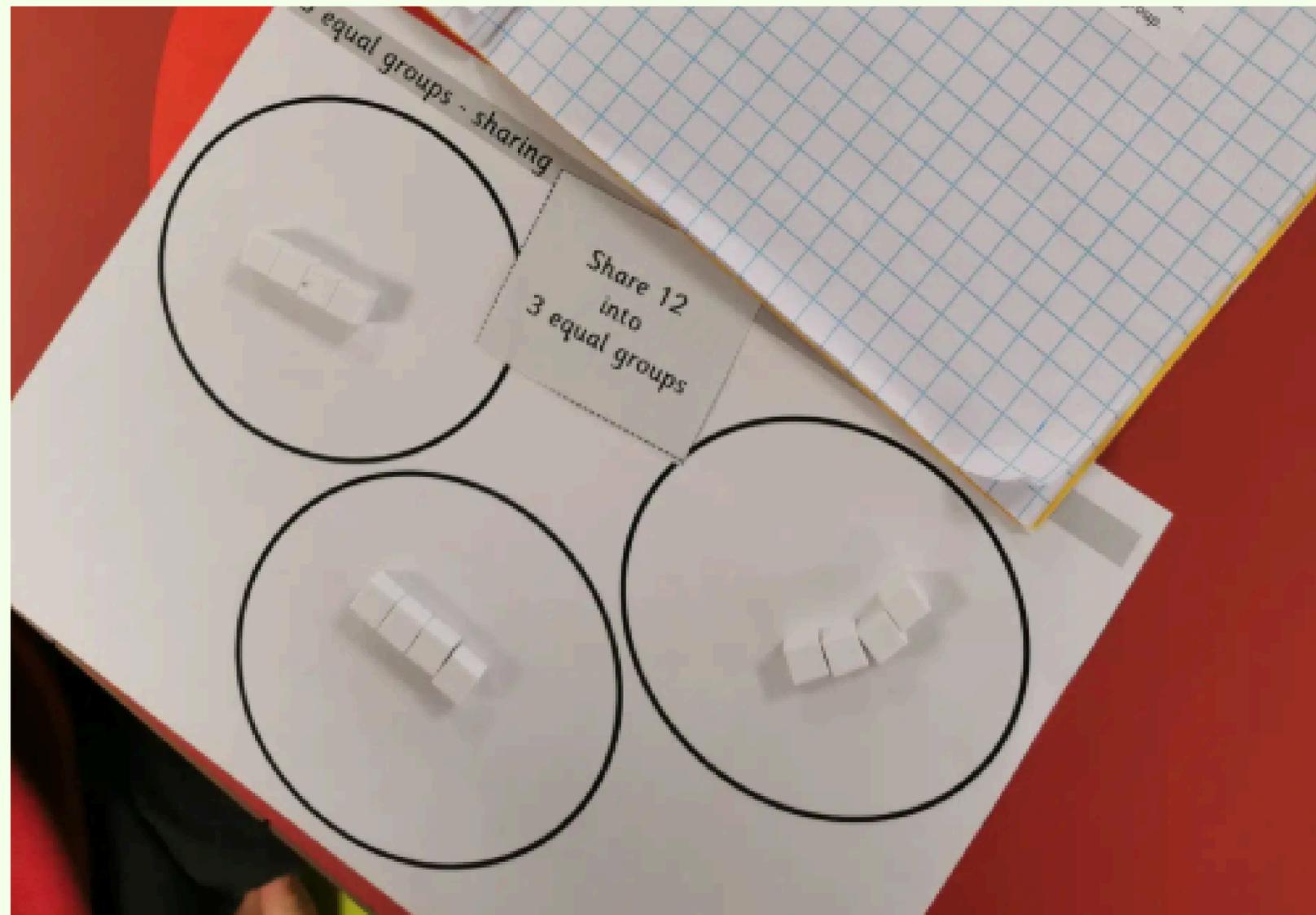
EYFS – Building the Foundations

Practical Experiences

Year 1 – Introducing the Concepts
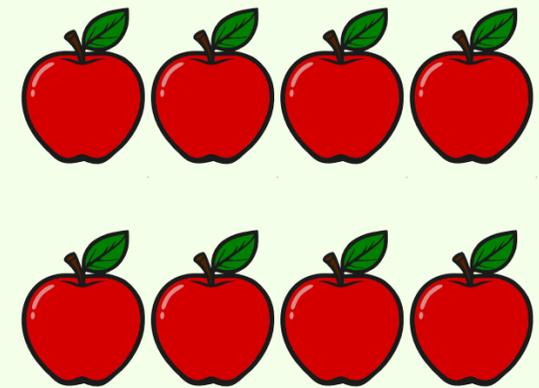
Year 1 – Introducing the Concepts
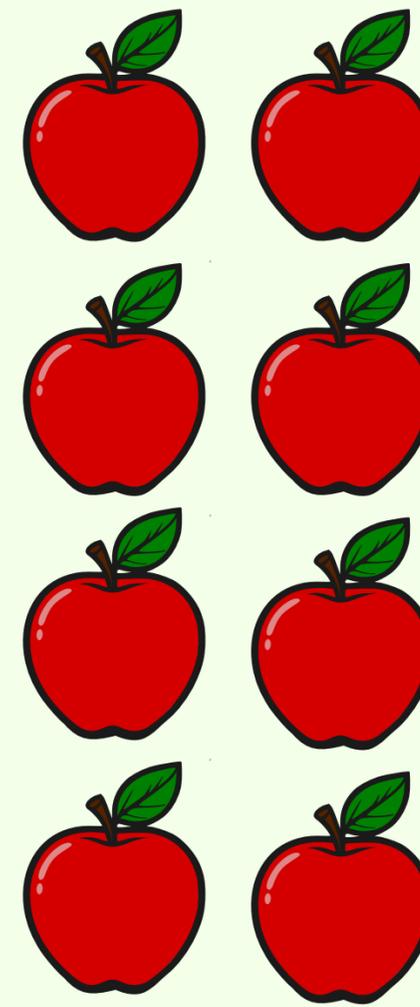
Year 1 – Introducing the Concepts

$$2 + 2 + 2 + 2 = 8$$
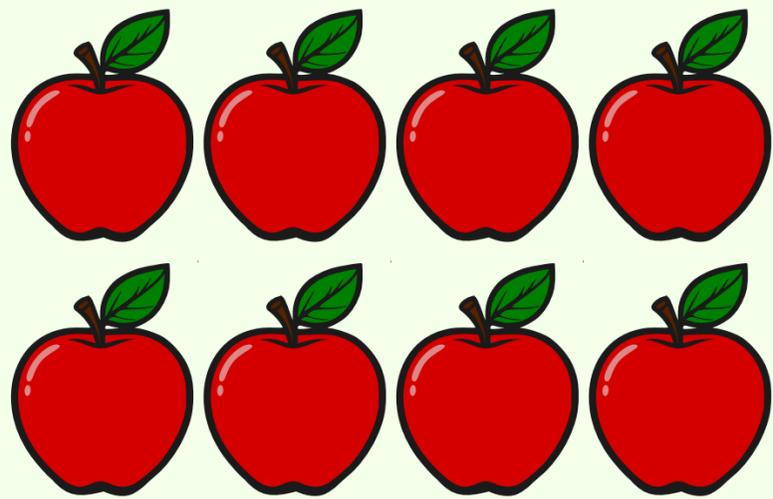
Year 1 – Introducing the Concepts

$$2 + 2 + 2 + 2 = 8$$

Year 1 – Introducing the Concepts

Year 2 – Early Mastery of Key Facts

My Times Tables

2 times table

0	x	2	=	0
1	x	2	=	2
2	x	2	=	4
3	x	2	=	6
4	x	2	=	8
5	x	2	=	10
6	x	2	=	12
7	x	2	=	14
8	x	2	=	16
9	x	2	=	18
10	x	2	=	20
11	x	2	=	22
12	x	2	=	24

5 times table

0	x	5	=	0
1	x	5	=	5
2	x	5	=	10
3	x	5	=	15
4	x	5	=	20
5	x	5	=	25
6	x	5	=	30
7	x	5	=	35
8	x	5	=	40
9	x	5	=	45
10	x	5	=	50
11	x	5	=	55
12	x	5	=	60

10 times table

0	x	10	=	0
1	x	10	=	10
2	x	10	=	20
3	x	10	=	30
4	x	10	=	40
5	x	10	=	50
6	x	10	=	60
7	x	10	=	70
8	x	10	=	80
9	x	10	=	90
10	x	10	=	100
11	x	10	=	110
12	x	10	=	120

Year 2 – Early Mastery of Key Facts

Games

2	8	12	2	16	8
4	12	6	14	10	16
12	8	10	4	18	6
6	10	20	16	4	22
10	14	22	4	24	6
24	6	4	10	8	10

Games

ana-sin-alb

Year 3 — Expanding Knowledge & Methods

3 × 1 = 3	4 × 1 = 4	8 × 1 = 8	11 × 1 = 11
3 × 2 = 6	4 × 2 = 8	8 × 2 = 16	11 × 2 = 22
3 × 3 = 9	4 × 3 = 12	8 × 3 = 24	11 × 3 = 33
3 × 4 = 12	4 × 4 = 16	8 × 4 = 32	11 × 4 = 44
3 × 5 = 15	4 × 5 = 20	8 × 5 = 40	11 × 5 = 55
3 × 6 = 18	4 × 6 = 24	8 × 6 = 48	11 × 6 = 66
3 × 7 = 21	4 × 7 = 28	8 × 7 = 56	11 × 7 = 77
3 × 8 = 24	4 × 8 = 32	8 × 8 = 64	11 × 8 = 88
3 × 9 = 27	4 × 9 = 36	8 × 9 = 72	11 × 9 = 99
3 × 10 = 30	4 × 10 = 40	8 × 10 = 80	11 × 10 = 110
3 × 11 = 33	4 × 11 = 44	8 × 11 = 88	11 × 11 = 121
3 × 12 = 36	4 × 12 = 48	8 × 12 = 96	11 × 12 = 132

I know

3 x 4 = 12

so I know

30 x 4 = 120

Year 3 – Expanding Knowledge & Methods

24 x 3 =

Year 4 – Fluency and Formal Method

6 x 1 = 6	7 x 1 = 7	9 x 1 = 9	12 x 1 = 12
6 x 2 = 12	7 x 2 = 14	9 x 2 = 18	12 x 2 = 24
6 x 3 = 18	7 x 3 = 21	9 x 3 = 27	12 x 3 = 36
6 x 4 = 24	7 x 4 = 28	9 x 4 = 36	12 x 4 = 48
6 x 5 = 30	7 x 5 = 35	9 x 5 = 45	12 x 5 = 60
6 x 6 = 36	7 x 6 = 42	9 x 6 = 54	12 x 6 = 72
6 x 7 = 42	7 x 7 = 49	9 x 7 = 63	12 x 7 = 84
6 x 8 = 48	7 x 8 = 56	9 x 8 = 72	12 x 8 = 96
6 x 9 = 54	7 x 9 = 63	9 x 9 = 81	12 x 9 = 108
6 x 10 = 60	7 x 10 = 70	9 x 10 = 90	12 x 10 = 120
6 x 11 = 66	7 x 11 = 77	9 x 11 = 99	12 x 11 = 132
6 x 12 = 72	7 x 12 = 84	9 x 12 = 108	12 x 12 = 144

Year 4 – Fluency and Formal Method

Hundreds	Tens	Ones
100	10 10 10 10	1 1 1 1
100	10 10 10 10	1 1 1 1
100	10 10 10 10	1 1 1 1

$$
\begin{array}{r}
1\ 4\ 4 \\
\times\quad\ 3 \\
\hline
\end{array}
$$

"By Year 5 and 6, times tables aren't just about recall—they're the tools children need to tackle fractions, division, ratio and algebra"

More Fun Ways to Practise Times Tables at Home

Short, fun bursts (5 minutes daily) are more effective than long drilling sessions.

Times Table Bingo

3×5=	5×5=	12×5=
8×5=	11×5=	1×5=

MathsStarters

BINGO

Bingo
Lots of Maths Bingo games, each game is randomly generated, students create their own bingo cards.

MathsStarters /

15	25	60
40	55	5

Write answers on a bingo grid. Call out multiplication questions — children cover the answer if they have it.

Snap or Matching Pairs

Shopping Maths

At the supermarket: 'I need 12 cans of beans, they come in packs of 4. How many packs do I need?'

Level 5 ▾   Ordering ▾   Choose ▾

Addition

Subtraction

Ordering

Partitioning

Digit Values

Rounding

Multiplication

Division

Doubles/Halves

Fractions

Daily 10

Mental Maths Challenge

Scan Me