

Learning times tables planning across the school

The National Curriculum expectation for Primary Schools across the UK is that, by the end of Year 4, pupils are capable of recalling all 12 times tables up to 12 x 12 including associated division facts.

Children must know: $3 \times 4 = 12$ and $4 \times 3 = 12$ plus...
 $12 \div 4 = 3$ and $12 \div 3 = 4$

With this in mind, this resource was created to provide schools with a schema for how to ensure that all pupils are capable of this by Year 4. The resource also provides a list of online resources as well as teaching methods and techniques for each year group.

To secure this knowledge it is recommended that the first term of Year 5 is used to consolidate learning and understanding through continuing practice.

Year 1

Autumn 1 & 2	Count in 2's up to 24, linking with even numbers and supporting doubles. Count in multiples of 10 in order up to 120.
Spring 1 & 2	Focus on counting in multiples of 5 up to 60, linking with knowledge of counting in 10s. Continue to develop fluency of counting in 2's and 10's.
Summer 1	Count in multiples of 10, 2 and 5 in order with growing fluency.
Summer 2	Count in multiples of 10, 2 and 5 in order fluently.

Teaching methodologies:

- Count pairs of objects
- Count straws bundled in tens
- Sing counting songs
- Hundred square
- Number lines
- Pictorial representations on display
- Rolling Numbers

Year 2

Autumn 1	Consolidate counting in steps of 2, 5 and 10 in order from 0 up to 12x.
Autumn 2	Count in steps of 2 and 5 from 0 up to 12x fluently. Recall multiples of 10 up to 12x10 in any order, including missing numbers and related division facts with growing fluency.
Spring 1	Recall multiples of 2 up to 12x2 in any order, including missing numbers and related division facts. Recall multiples of 10 up to 12x10 fluently.
Spring 2	Recall multiples of 5 up to 12x5 in any order, including missing numbers and related division facts. Recall multiples of 2 up to 12x2 in any order, including missing numbers and related division facts with growing fluency.
Summer 1	Count in multiples of 3 to 12x3 in order from 0. Recall multiples of 2 up to 12x2 in any order, including missing numbers and related division facts fluently. Recall multiples of 5 up to 12x5 in any order, including missing numbers and related division facts with growing fluency.
Summer 2	Count in multiples of 3 to 12x3 in order from 0 with growing fluency. Recall multiples of 5 up to 12x5 in any order, including missing numbers and related division facts fluently.

Teaching methodologies:

- Counting objects in groups of 2, 5, 10 & 3
- Sing counting songs
- Hundred square
- Number lines
- Array with concrete resources
- Pictorial representations on display
- Rolling Numbers

The KS1 SATS include questions like $2 \times \square = 10$ and

$20 \div 5 = \square$ How many wheels on 7 bicycles? \square

Year 3

Autumn 1	Count in multiples of 3 to 12×3 in order from 0 fluently.
Autumn 2	Recall multiples of 3 up to 12×3 in any order, including missing numbers and related division facts with growing fluency. Count in multiples of 4 to 12×4 in order from 0 with growing fluency. Introduce (relating to $\times 4$) and begin to count in multiples of 8 from 0 to 12×8 .
Spring 1	Recall multiples of 3 up to 12×3 in any order, including missing numbers and related division facts fluently. Count in multiples of 4 to 12×4 in order from 0 with fluently. Count in multiples of 8 to 12×8 in order from 0 with growing fluency.
Spring 2	Recall multiples of 4 up to 12×4 in any order, including missing numbers and related division facts with growing fluency. Count in multiples of 8 to 12×8 in order from 0 fluently.
Summer 1	Recall multiples of 4 up to 12×4 in any order, including missing numbers and related division facts fluently. Recall multiples of 8 up to 12×8 in any order, including missing numbers and related division facts with growing fluency.
Summer 2	Recall multiples of 8 up to 12×8 in any order, including missing numbers and related division facts fluently.

Teaching methodologies:

- Counting objects in groups of 3, 4 and 8
- Hundred square
- Number lines
- Array with concrete resources
- Pictorial representations on display
- Rolling Numbers

Include games and challenges to develop the children's speed in calculating the answers to times tables and associated division facts, so they become second nature.

Year 4

Autumn 1	Recall multiples of 3,4 and 8 up to 12x in any order, including missing numbers and related division facts fluently. Fluently count in 6's in order up to 12x6, using multiples of 3 to support.
Autumn 2	Recall multiples of 6 in any order, including missing numbers and related division facts with growing fluency. Fluently count in 7's in order up to 12x7.
Spring 1	Recall multiples of 6 in any order, including missing numbers and related division facts fluently. Recall multiples of 7 in any order, including missing numbers and related division facts with growing fluency.
Spring 2	Recall multiples of 7 in any order, including missing numbers and related division facts fluently. Fluently count in 9's in order up to 12x9. Fluently count in 11's in order up to 12x11.
Summer 1	Recall multiples of 9 in any order, including missing numbers and related division facts with growing fluency (using 10x and adjusting by 1 group to find 9x as a strategy) Recall multiples of 11 in any order, including missing numbers and related division facts fluently. Fluently count in 12's in order up to 12x12.
Summer 2	Recall multiples of 9 in any order, including missing numbers and related division facts fluently. Recall multiples of 12 in any order, including missing numbers and related division facts with growing fluency (using 10x and adjusting by adding 2 more groups).

Teaching methodologies:

- Hundred square
- Number lines
- Pictorial representations on display
- Rolling Numbers

Lots of games and app use this year to consolidate learning and develop confidence and accuracy in recall.

At the present time, the government plans that children in Year 4 in the school year 2019-2020 will sit a times table computerised 'test' to check if they know all tables and division facts.

Year 5

The National Curriculum expectation is that by the end of Year 4, children are able to recall all 12 tables up to 12x12.

To secure this, we recommended that the first term of Year 5 be used to consolidate by continuing your practice.

If you find that your children are working below the structure outlined in this document, we recommend tracking back to where your children are.

Autumn Term	<p>Recall multiples of 12 in any order, including missing numbers and related division facts fluently.</p> <p>Recall multiples of all times tables up to 12x12 in any order, including missing numbers and related division facts with growing fluency.</p>
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Teaching methodologies:

- Pictorial representations on display
- Rolling Numbers

Online resources

Online Resource	URL	Suitable for Year 1	Suitable for Year 2	Suitable for Year 3	Suitable for Year 4	Suitable for Year 5
Numbergym's Table Trainer	bit.ly/Number_Gym_Trainer					
TES Elements	bit.ly/TESElements					
Sumdog	bit.ly/Sum_Dog					
Manga High	bit.ly/Manga_High					
Mathletics	bit.ly/Mathletics_					
Matific	bit.ly/Matific_					
Maths Frame	bit.ly/Maths_Frame_					
Hit the Button	bit.ly/Hit_The_Button					
Maths Splat App	bit.ly/Maths_Splat_App					
Maths Sumo App	bit.ly/Maths_Sumo_App					
Times Tables Rockstars	bit.ly/Times_Tables_Rockstars_					