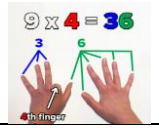
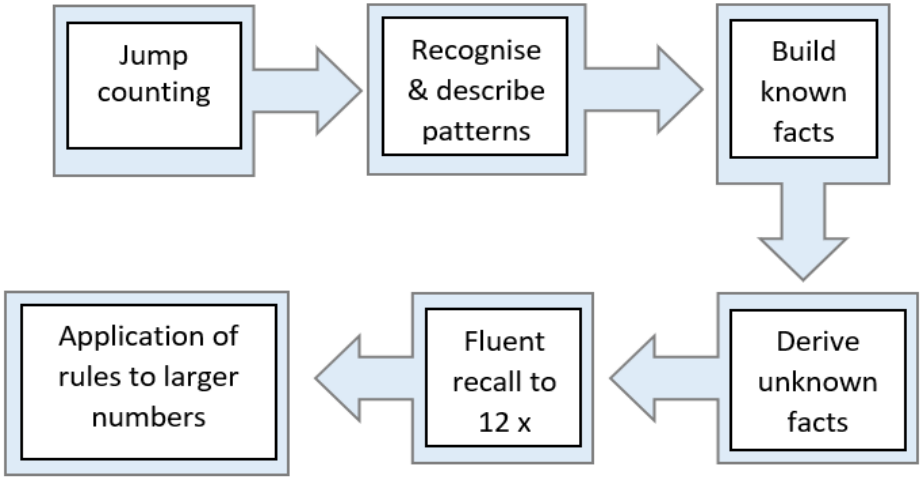
By Brook Valley CE Primary School
Times Tables & Associated Facts Progression Overview

Term	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5 & 6	
		Revise and consolidate previous learning	Revise and consolidate previous learning	Revise and consolidate previous learning	Revise and consolidate previous learning	Revise and consolidate previous learning	
Autumn 1		Count in 2s up to 24, linking with even numbers & supporting Counting in multiples of 10 in order up to 120	Consolidate counting in steps of 2, 5 and 10 in order from 0 up to 12x	Count in multiples of 3 to 12 x 3 in order from 0 fluently	Recall multiples of 3, 4 and 8 up to 12x in any order, including missing numbers & related division facts fluently Fluently count in 6s in order up to 12 x 6, using multiples of 3 to support	**The National Curriculum expectation is that by the end of Year 4, children are able to recall all 12 tables up to 12 x 12**	Recall multiples of 12 in any order, including missing numbers & related division facts fluently. Recall multiples of all time tables up to 12 x 12 in any order, including missing numbers & related division facts Recognise and use square numbers and cube numbers, and the notation Recall multiples of all time tables up to 12 x 12 in any order, including missing numbers & related division facts Recall multiples of all time tables up to 12 x 12 in any order, including missing numbers & related division facts. Recall all tables to 12 x 12 and related division facts, including applying to decimal and larger numbers Identify common factors and multiples.
Autumn 2			Count in steps of 2 and 5 from 0 up to 12x fluently Recall multiples of 10 up 12 x 10 in any order, including missing numbers & related division facts with growing fluency	Recall multiples of 3 up to 12 x 3 in any order, including missing numbers & related division facts with growing fluency Count in multiples of 4 to 12 x 4 in order from 0 with growing fluency. Introduce (relating to x4) and begin to count in multiples of 8 from 0 to 12 x 8	Recall multiples of 6 in any order, including missing numbers and related division facts with growing fluency Fluently count in 7s in order up to 12 x 7		
Spring 1		Focus on counting in multiples of 5 up to 60, linking with knowledge of counting in 10s	Recall multiples of 2 up to 12 x 2 in any order, including missing numbers & related division facts Recall multiples of 10 up to 12 x 10 fluently	Recall multiples of 3 up to 12 x 3 in any order, including missing numbers & related division facts fluently Count in multiples of 4 to 12 x 4 in order from 0 with fluency Count in multiples of 8 to 12 x 8 in order from 0 with growing fluency	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 & related division facts with growing fluency Learn 'tricky' facts using mnemonics e.g. "7 x 7 = 49, one short of 50 all the time."		
Spring 2		Focus on counting in multiples of 5 up to 60, linking with knowledge of counting in 10s	Recall multiples of 5 up to 12 x 5 in any order, including missing numbers & related division facts Recall multiples of 2 up 12 x 2 in any order, including missing numbers & related division with growing fluency	Recall multiples of 4 up to 12 x 4 in any order, including missing numbers & related division facts with growing fluency Count in multiples of 8 to 12 x 8 in order from 0 fluently	Recall multiples of 7 in any order, including missing numbers & related division facts fluently. Fluently count in 9s in order up to 12 x 9 Fluently count in 11s in order up to 12 x 11 **Understand** that **multiples of 9** have a digital root of 9 – learn the finger trick 		

Summer 1	Count in multiples of 2 up to 24, linking with even numbers and supporting doubles	Count in multiples of 10, 2 and 5 in order with growing fluency	Count in multiples of 3 to 12 x 3 in order from 0 Recall multiples of 2 up to 12 x 2 in any order, including missing numbers & related division facts fluently. Recall multiples of 5 up to 12 x 5 in any order, including missing numbers & related division facts with growing fluency	Recall multiples of 4 up to 12 x 4 in any order, including missing numbers & related division facts fluently Recall multiples of 8 up to 12 x 8 in any order, including missing numbers & related division facts with growing fluency.	Recall multiples of 9 in any order, including missing numbers & 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 & related division facts fluently. Fluently count in 12s in order up to 12 x 12		
Summer 2	Count in multiples of 2 up to 24, linking with even numbers and supporting doubles	Count in multiples of 10, 2 and 5 in order fluently	Count in multiples of 3 to 12 x 3 in order from 0 Recall multiples of 2 up to 12 x 2 in any order, including missing numbers & related division facts fluently. Recall multiples of 5 up to 12 x 5 in any order, including missing numbers & related division facts with growing fluency	Recall multiples of 8 up to 12 x 8 in any order, including missing numbers & related division facts fluently	Recall multiples of 9 in any order, including missing numbers & related division facts fluently. Recall multiples of 12 in any order, including missing numbers and related division facts with growing fluency (using 10x & adjusting by adding 2 more groups)		
Teaching method-ologies	Count pairs of objects (Socks, gloves etc.) Explore patterns on a 100 square Chant multiples using actions (marching, jumping etc.) Jump on number lines/ counting stick Display pictorial representations	Count pairs of objects Count straws bundled in tens Sing counting songs Hundred square Number lines Pictorial representations on display Rolling numbers Understand that multiplication is repeated addition (10 x 3 = 10 + 10 + 10)	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 Times tables homework Counting sticks – jump on/ jump back	Counting objects in groups 3, 4 and 8 Hundred square Number lines Array with concrete resources Pictorial representations on display Rolling numbers Chanting counting Times tables homework	Counting in groups e.g. boxes of eggs (6), days in a week (7), football team (11), months in a year (12), sides on a group of triangles/quadrilaterals/octagons Hundred square Number lines Counting sticks -jump on/ jump back Pictorial representations on display Rolling numbers Chanting counting Times tables homework		Pictorial representations on display Rolling numbers Times tables homework Any of the previous for pupils who are not yet secure



x	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
9	0	9	18	27	36	45	54	63	72	81	90	99	108
10	0	10	20	30	40	50	60	70	80	90	100	110	120
11	0	11	22	33	44	55	66	77	88	99	110	121	132
12	0	12	24	36	48	60	72	84	96	108	120	132	144

10 x
Move one place value bigger and use zero as a place holder

2 x
Doubles, even numbers

Partition, double and combine for larger factors

3 x and 6 x.
All multiples of 3 have a digital root of 3, 6 or 9.
Even multiples of 3 are also multiples of 6.

8 x
Double, double and double again to multiply large numbers by 8.
Or Multiply by 10 and subtract 2 groups.

5 x
The ones value is 5 or 0

Multiply by ten and halve for larger factors

4 x
Double and double again.

0 x
Anything multiplied by zero is zero.

1 x
The other factor stays the same.

9 x
Repeated addition pattern: Add ten then subtract one

Multiply by ten then subtract one group.

The digital root is always 9 – learn the finger trick

11 x
Repeated addition: Add a ten and a one.

Multiply: Multiply by ten then add one group.

12 x or more
Partition and multiply then recombine.

It is helpful to learn some 'tricky' facts by heart using mnemonics.

e.g.
8 and 8 are sick on the floor (8 x 8 = 64)
7 x 7 = 49,
"one short of 50 all the time"
56 = 7 x 8
(consecutive numbers)