

	Year 1	Year 2: 2, 5, 10	Year 3: 5, 10, 2, 4 and 8	Year 4: 3, 6, 9, 7 and all.	Year 5	Year 6
Autumn 1	Count in 2s to 24 link even and doubles Count in 10s in order upto 120	Consolidate 2, 5, 10 in order from 0 upto 12 x.	Count in multiples of 2 upto 12 x 2 in any order including missing numbers and division facts. Count in multiples of 4 upto 12 x 4 in order from 0 with growing fluency.	Recall multiples of 3, 4 and 8 upto 12 x in any order including missing numbers and related division facts fluently. Fluently count in 6s upto 12 x 6.	Recall multiples of 12 in any order, including missing numbers and related division facts. Recall multiples from all times tables upto 12 x 12 in any order.	Recall of all times tables. Recall of all square numbers. Recall of all cubed numbers. Recall of prime numbers to 50.
Autumn 2	Count in 2s to 24 link even and doubles Count in 10s in order upto 120	Count fluently from 0 in 2, 5, 10. Recall multiples of 10 upto 12 x 10 in any order including missing numbers and division facts.	Recall multiples of 4 upto 12 x 4 in any order, missing numbers and division facts. Introduce (relating to 4) and begin to count multiples of 8 from 0 to 12 x 8	Introduce 6s in order upto 12 x 6. Relate to multiples of 3 to support. Fluently count in 9s. in order upto 12 x 9.	Teaching of square numbers. Recall of square numbers. Revision of all times tables. Recall multiples from all times tables upto 12 x 12 in any order.	Recall of all times tables. Recall of all square numbers. Recall of all cubed numbers. Recall of prime numbers to 50. Identify prime numbers to 100.
Spring 1	Count in mults of 5 upto 60 link to 10s Continue 2s and 10s	Recall multiples of 2 upto 12 x 2 in any order including missing numbers and division facts. Recall multiples of 10 upto 12 x 10 fluently.	Recall multiples of 4 upto 12 x 4 in any order, missing numbers and division facts. Count in multiples of 8 to 12 x 8 in any order.	Recall multiples of 6 in any order, missing boxes and division. Recall multiples of 9 in and order including missing number and division facts fluently. Fluently count in 7s in order upto 12 x 7.	Teaching of cubed numbers. Recall of cubed numbers. Recall of square numbers. Revision of all times tables. Recall multiples from all times tables upto 12 x 12 in any order.	Recall of all times tables. Recall of all square numbers. Recall of all cubed numbers. Recall of prime numbers to 50. Recall prime numbers to 100.
Spring 2	Count in mults of 5 upto 60 link to 10s Continue 2s and 10s	Recall multiples of 5 upto 12 x 2 in any order including missing numbers and division facts. Recall multiples of 2 upto 12 x 2 fluently and related division facts.	Recall multiples of 4 upto 12 x 4 in any order, missing numbers and division facts. Count in multiples of 8 to 12 x 8 in any order.	Recall multiples of 7 in any order, including missing numbers and related division facts. Fluently count in 11s in order upto 12 x 11.	Recall of cubed numbers. Recall of square numbers. Revision of all times tables. Recall multiples from all times tables upto 12 x 12 in any order. Prime numbers 0-50	Recall of all times tables. Recall of all square numbers. Recall of all cubed numbers. Recall of prime numbers to 50. Recall prime numbers to 100.
Summer 1	Count in multiples of 10, 2 and 5 fluently	Count in multiples of 3 to 12 x 3 in order from 0. Recall multiples of 2 upto 12 x 2 fluently and related division facts. Recall multiples of 5 upto 12 x 5 fluently and related division facts.	Recall multiples of 4 upto 12 x 4 in any order, missing numbers and division facts. Recall multiples of 8 upto 12 x 8 in any order, missing numbers and division facts.	MULTIPLICATION TABLES CHECK Recall multiples of 7 in any order, including missing numbers and related division facts. Recall multiples of 11 in any order. Fluently count in 12s.	Recall of cubed numbers. Recall of square numbers. Revision of all times tables. Recall multiples from all times tables upto 12 x 12 in any order. Prime numbers 0-50	Recall of all times tables. Recall of all square numbers. Recall of all cubed numbers. Recall of prime numbers to 50. Recall prime numbers to 100.
Summer 2	Count in multiples of 10, 2 and 5 fluently	Count in multiples of 3 to 12 x 3 in order from 0. Recall multiples of 5 upto 12 x 5 fluently and related division facts.	Recall multiples of 8 upto 12 x 8 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. Times Tables intervention and recap of all times tables.	Recall of cubed numbers. Recall of square numbers. Revision of all times tables. Recall multiples from all times tables upto 12 x 12 in any order. Prime numbers 0-50	Recall of all times tables. Recall of all square numbers. Recall of all cubed numbers. Recall of prime numbers to 50. Recall prime numbers to 100.
				END OF YEAR SECURE IN ALL 12		

A suggested progression for teaching addition facts

Group A: Year 1 (Within 10)

1. Adding 1 (e.g. $7 + 1$ and $1 + 7$)
2. Doubles of numbers to 5 (e.g. $4 + 4$)
3. Adding 2 (e.g. $4 + 2$ and $2 + 4$)
4. Number bonds to 10 (e.g. $8 + 2$ and $2 + 8$)
5. Adding 10 to a number (e.g. $5 + 10$ and $10 + 5$)
6. Adding 0 to a number (e.g. $3 + 0$ and $0 + 3$)
7. Near doubles (e.g. $3 + 4$ and $4 + 3$)
8. The ones without a family! $5 + 3$, $3 + 5$, $6 + 3$, $3 + 6$

Group B: Year 2 (Bridging 10)

9. Doubles of numbers to 10 (e.g. $7 + 7$)
10. Near doubles (e.g. $5 + 6$ and $6 + 5$)
11. Bridging (e.g. $8 + 4$ and $4 + 8$)
12. Compensating

Alongside

Partitioning 2, 3, 4, 5, 6 and 10

Partitioning 7, 8 and 9

Partitioning 11 – 20 into single digit addends

Can be used
somewhat
interchangeably

Teaching sequence:

- Before launching all times tables – two lessons to launch the times table and to look at patterns, build it, solve it, investigate. How does it relate to others?
- Look at the times tables, hundred square, look at songs, tricks, tips etc.
- Look at the tricky facts – chant.
- Play games – NOT games to put pressure on children and increase anxiety.
- Use the CPA times tables sheet with the children.
- Look at commutativity – which times tables do we know?
- Display the facts alongside.
- Look at the CPA lesson idea from China.
- Depth – 60 x table. 0.6, how does it link to 3s prove it.
- The six times table multiples are always one more than a multiple of 5: true or false?
- Within the lesson:
 - Unitise – counting in 6s e.g. cans of coke, hexagons, insects
 - Equal and unequal groups of 6 – link to problems
 - Making of equal groups (linking with division) use counters and practical objects
 - Understanding repeated addition and the 'x' sign.

Lesson format:

1. Decide the order: e.g in Y2 look at the importance of the 0 and the 1 times tables. Look at the relationships.
2. Decide on the presenting of the times table 6x or x6? MTC guidance says 6x7 is in the 6x not the 7x table. Multiplier multiplicand.
3. Systematically build. Which facts do I know? What have I met before?
4. 'What comes in...' make this a part of the first lesson to introduce the concept in the real world.
5. Regular retrieval practice – first in order, then out of order. Build in tests but not in the main activity. (finger counting multilink on fingers)
6. Use CPA approach for all children. Look at arrays.
7. Take times to explore the patterns within, repeated digits, reversed digits, odds and evens. How does table relate to others e.g. 7 is 5 and 2s, 4s and 3s, 6 and 1s, Look at the hundred square.
8. Use of variation and intelligent practice.
9. Explore the laws: commutative $6 \times 3 = 3 \times 6$, $6 \times 3 =$ distributive $(2 \times 3) + (2 \times 3) + (2 \times 3)$
10. Tests of divisibility

Number Bond Ideas:

1. Songs
2. Find 8 number sentences
3. Playing cards – snap for bonds.
4. Cuisenaire – find the tens
5. Wordsearch – find bonds to ten
6. Dice – roll and find partner
7. Whiteboard – I say '9' you say '1'
8. Reinforce the stem sentence, Ten is equal to 8 and 2. And $2 + 8 = 10$
9. Dominoes – make 10
10. Number bead string – find the partner. If I show 8 show me what is hidden
11. Numicon – match the partner