Year 3 Maths Fluency

24.11.26

ESSENTIAL:

- NUMBER FACTS OFF-BY-HEART
- QUICKLY DERIVE NUMBER FACTS
- SUPPORTS OTHER AREAS OF MATHS

Fluency Groups

- Baseline assessment
- Grouped for year group-relevant focus
- 10 mins daily Mon-Thurs

- Class Teacher – Y2 gaps and Y3 focus
- Small Groups -Y1/ Reception Focus

Reception: Mr Russell, Mr Dunn, Mrs Dunn

Year 1: Miss Smith, Miss Pughsley

Reception

Say all numbers to 10 (reading the written numbers)
Count to 10
Say all numbers to 20 (reading the written numbers)
Count to 20
Count forward and backwards from any given number (within 20)
Say 1 more/1 less of any number to 20
Recall all number bonds to 5 (pairs of numbers that make 5)

Recall some number bonds to 10 (pairs of numbers that make 10)
Begin to double numbers to 10 (double all numbers between 1 and 10)
Recall composition of numbers to 5 (all pairs of numbers that make 2,3,4 and 5)
Subitise numbers on dice (recognise the number without having to count each dot)
Begin to subitise numbers to 10 (recognise how many objects are in a group without counting each item)

Recall the days of the week
Recall the months of the year
Recognise 1p, 2p, 5p, 10p and 20p coins
Name basic 2D shapes (square, circle, triangle, rectangle)
Name basic 3D shapes (sphere, cone, cube, cuboid, cylinder, pyramid)

Year 1

I can count forwards and backwards up to 50
I can count forwards and backwards up to 100
I can find 1 more/1 less of any number to 50
I can find 1 more/1 less of any number to 100
I can recall number bonds of all numbers to 10 (e.g. 6 = 5+1, 4+2, 6+0 and 3+3)
I can recall all number bonds to 10

I can double numbers to 10
I can halve numbers to 10
I can identify odd and even numbers to 20
I can recall the days of the week
I can recall the months of the year
I can recognise all coins
I can begin to count in 2s, 5s and 10s

I can partition numbers in 1s and 10s (e.g. 34 has 3 tens and 4 ones)
I can name a variety of 2D Shapes (*square, circle, triangle, rectangle)*
I can name a variety of 3D Shapes – *sphere, cone, cube, cuboid, cylinder, pyramid*

Year 2

Read and write to 100 and beyond (write numbers as digits and words)
Count forwards and backwards in multiples of 10
Find 1 more/1 less and 10 more/10 fewer of any number to 100
Recall number bonds to 10 and 20 (e.g. 6 + 4 = 10, 16 + 4 = 20)
Recall composition of numbers to 10 (all pairs of numbers that make 2, 3, 4, 5,6,7,8,9 and 10)

Recall number bonds to 100 (10 + 90 etc…)
Double and halve (even) numbers to 20
Count in 2s
Count in 5s
Count in 10s
Count in 3s
Recall days of the week and months of the year

Recognise all coins and notes
Recall all multiplication and division facts for 2x table
Recall all multiplication and division facts for 5x table
Recall all multiplication and division facts for 10x table
Name a variety of 2D and 3D shapes

Year 3

Read and write numbers to 1000 (as digits and words)
Count forwards and backwards beyond 100 in various steps (e.g. steps of 25, 50)
Find 10/100 more or fewer than a given number
Recall bonds of all numbers up to 10 and 20
Recall number bonds to 100 and 1000 (10 + 90, 100 + 900 etc...)

Double and halve (even) numbers to 20 as well as multiples of 5 (double) and 10 (halve and double)
Recall bonds to 60 (calculate minutes to the next hour)
Recognise all coins and notes
Convert between pounds and pence
Count in 50s
Recall days of the week and months of the year

Recall time conversions (secs in a min, hours in a day etc)
Recall all multiplication and division facts for 2x, 5x and 10x table
Recall all multiplication and division facts for 3x table
Recall all multiplication and division facts for 4x table
Recall all multiplication and division facts for 8x table

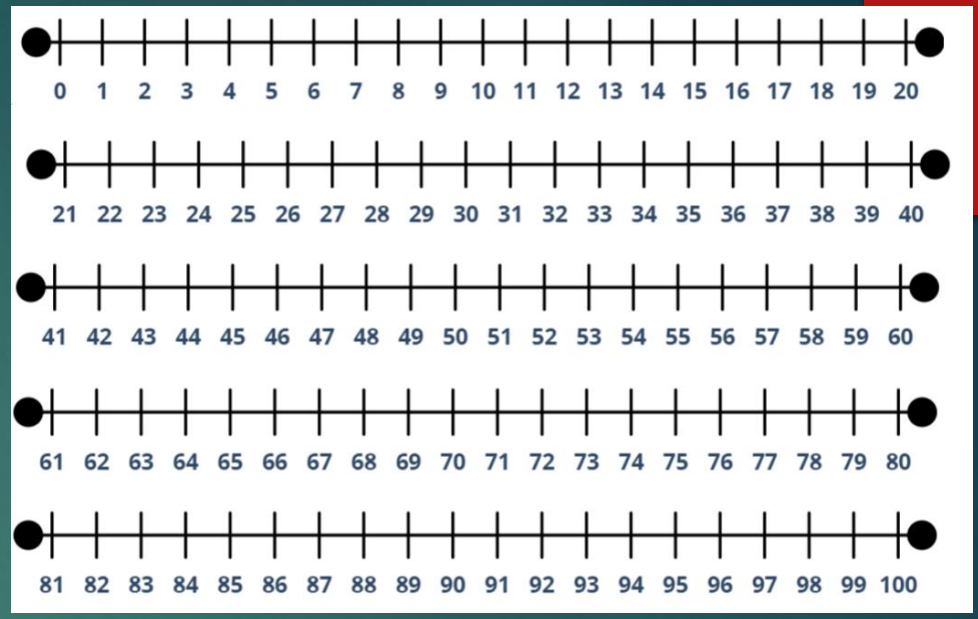
How can we help our children?

- It isn't always helpful to just learn facts off-by-heart, especially if a child struggles with this.
- It is helpful for children to use visual support e.g. numberlines, hundred squares, multiplication grids.
- It is helpful for children to look at the structure of the maths they are learning.

Printable Resources

100 Square

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



MULTIPLICATION TABLE

12 x 12 Times Table

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

Learning Times Tables

- It is perfectly fine for children to use the multiplication grid to help them learn the facts. They can use the grid to chant the times tables or quickly find the answers to questions. In time, they will be able to move away from the visual resource once they have memorised the facts.

Useful Resources:

If you would like to support your child at home, you could work with them verbally or use some of the listed online/app resources to further help them make progress.

White Rose 1-minute Maths app (free app for a phone or tablet)
You Can't Do Simple Maths Under Pressure (tomscott.com)
https://www.tomscott.com/usvsth3m/maths/
TT Rockstars (times tables – login provided by school)
Hit the Button - Quick fire maths practise for 6-11 year olds (topmarks.co.uk)
https://www.topmarks.co.uk/maths-games/hit-the-button (many different mental maths skills)
Number Fact Families - Topmarks
https://www.topmarks.co.uk/number-facts/number-fact-families (number bond facts)
Daily 10 - Mental Maths Challenge - Topmarks
https://www.topmarks.co.uk/maths-games/daily10 (mixed fluency games)