Reception Number Facts

Autumn Term Focus Facts:						
Doubling facts	1+1=2	2+2=4	3+3=6	4+4=8	5+5=10	
Early Number Bonds to 5	1+2=3 2+1=3	1+4=5 4+1=5	2+3=5 3+2=5			

Spring Term Focus Facts:					
Number bonds to 10	1+9=10	2+8=10	3+7=10	4+6=10	5+5=10
Revisit and practise Autumn term focus facts.					

Summer Term Focus Facts:	
Counting in multiples of 2:	2,4,6,8,10,12,14,16,18,20...and so on.
Counting in multiples of 10:	10,20,30,40,50,60...and so on.
Counting in multiples of 5:	5,10,15,20,25,30,35,40,45,50...and so on.
Revisit and practise Autumn and Spring term facts.	

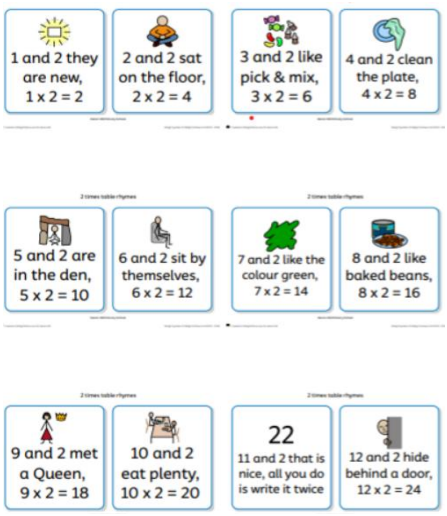
Songs and Links to aid learning:

Youtube MC Grammar

- Number bonds to 10
- 2 times tables
- 10 times table
- 5 times table



Widgits and Rhymes:



Year 1 Number Facts

Autumn Term Focus Facts:						
Adding 2 to a Number	4+2=6	5+2=7	6+2=8	7+2=9	8+2=10	9+2=11
Adding 3 to a Number	4+3=7	5+3=8	6+3=9			
More doubles Facts	6+6=12	7+7=14	8+8=16	Revisit Reception facts: doubles to 5+5.		
Count in multiples of 2, 5 & 10:	2,4,6,8,10,12,14,16,18,20,22,24...and so on. 5,10,15,20,25,30,35,40...and so on. 10,20,30,40,50,60...and so on.					

Spring Term Focus Facts:						
Number bonds to 10	0+10=10	1+9=10	2+8=10	3+7=10	4+6=10	5+5=10
Revisit and practise Autumn term focus facts.						

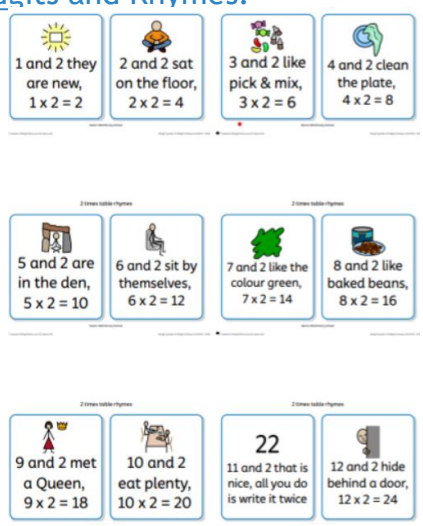
Summer Term Focus Facts:	
2 x Tables	0x2=0, 1x2=2...to 12x2=24
10x Tables	0x10=0, 1x10=10...to 12x10=120
5 x Tables	0x5=0, 1x5=5...to 12x5=60

Songs and Links to aid learning:

YouTube MC Grammar

- 2 times table
- 5 times table
- 10 times table

Widgits and Rhymes:



Year 2 Number Facts

Autumn Term Focus Facts:						
Near Doubles	4+3=7	5+4=9	5+6=11	6+7=13	8+7=15	8+9=17
Adding 7	4+7=11	5+7=12	7+7=14			
Adding 8	3+8=11	4+8=12	5+8=13	6+8=14	7+8=15	8+8=16
Adding 9	3+9=12	4+9=13	5+9=14	6+9=15	7+9=16	9+9=18
Count in multiples of 3 and 6:	3,6,9,12,15,18,21,24,27,30,33,36. 6,12,18,24,30,36,42,48,54,60,66,72.					
Review of past learning:	Review number bonds to 10 doubles (Rec & Y1 facts). Revisit counting in steps of 2,5,10.					

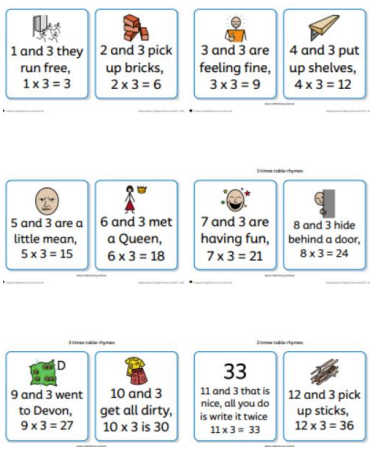
Spring Term Focus Facts:	
3 x Tables	0x3=0, 1x3=3...to 12x3=36
6 x Tables	0x6=0, 1x6=6...to 12x6=72
Review of Past Learning:	Revisit 2, 5 and 10 x tables to keep recall sharp and speedy. (Y1 focus facts.) Revisit counting in steps of 2,3,5,6,10.

Summer Term Focus Facts:	
4 x Tables	0x4=0, 1x4=4...to 12x4=48
Review of Past Learning:	Regularly revisit 2,3,5,6 and 10x tables, doubles to 20 and number bonds to 10.

Songs and Links to aid learning:

YouTube MC Grammar
- 3 times table
- 6 times table
- 4 times table

Widgits & Rhymes:



Year 3 Number Facts

Autumn Term Focus Facts:					
Using rounding to 10 or partitioning to add	4+7=11	4+9=13	4+8=12	3+8=11	3+9=12
Adding 7 or 8	5+7=12	5+8=13	5+9=14	6+8=14	
Adding 9	6+9=15	7+9=16			
Count in multiples of 8.	0,8,16,24,32,40,48,56,64,72,80,88,96.				
Review of Past Learning:	Revisit counting in multiples of 2,3,4,5,6 and 10. Revisit number bonds to 20, doubles & near doubles facts from Reception, Y1 and Y2 to keep skills sharp.				

Spring Term Focus Facts:	
8x Tables	0x8=0, 1x8=8...to 12x8=96
9x Tables	0x9=0, 1x9=9...to 12x9=108
Count in multiples of 9.	0,9,18,27,36,45,54,63,72,81,90,99,108.
Review Past Learning:	Revisit 2,3,4,5,6 and 10 x tables to keep recall sharp.

Summer Term Focus Facts:	
11x Tables	0x11=0, 1x11=11...to 12x11=132
Review past learning:	2,3,5,6,8,9 and 10x tables.

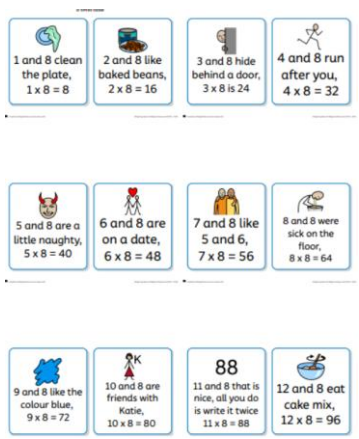
Songs and Links to aid learning:

YouTube MC Grammar

- 8 times table
- 9 times table
- 11 times table



Widgits & Rhymes:



Year 4 Number Facts

Autumn Term Focus Facts:	
7 x Tables	0x7=0, 1x7=7...to 12x7=84
Count in multiples of 7 and 12.	0,7,14,21,28,35,42,49,56,63,70,77,84. 0,12,24,36,48,60,72,84,96,108,120,132,144.
Review of past learning:	Revisit counting in steps of 2,3,4,5,6,8,9,10. Review number bonds to 20, doubles to 20, near doubles and adding 7,8 or 9 to a number (taught facts from R-Y3).

Spring Term Focus Facts:	
Revisit 2, 5 and 10 x tables to keep recall sharp and speedy. (Y1 focus facts.)	
12 x Tables	0x12=0, 1x12=12...to 12x12=144
Review of past learning:	Revisit counting in steps of 2,3,4,5,6,8,9,10, 12. Review number bonds to 20, doubles to 20, near doubles and adding 7,8 or 9 to a number (taught facts from R-Y3).

Summer Term Focus Facts:	
Regularly revisit 2-12 x tables to keep recall sharp and speedy.	
Multiplication Tables Check:	Secure recall of 2-12xtables and related division facts. Revisits of all number bonds taught in R-Y4.

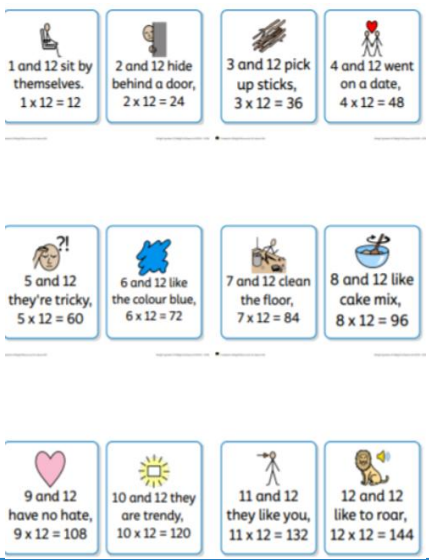
Songs and Links to aid learning:

YouTube MC Grammar

- 7 times table
- 12 times table



Widgits & Rhymes:



Year 5 Number Facts

Autumn Term Focus Facts:								
Relating multiplication facts to division	7x6=42, so I also know…	6 x 7 = 42	42÷ 6 = 7	42÷ 7 = 6	42 = 7 x 6	42 = 6 x 7	6 = 42÷7	7 = 42÷6
Relate multiplication and division to Place Value	8x6=48, so I can use that fact to create a fact web:	80 x 6 = 480 and 480 ÷ 6 = 80 and 480 ÷ 80 = 6	60 x 8 = 480 (and relate to division)	80 x 60 = 4,800 and 80 x 60 = 4,800	800 x 6 = 4,800	8 x 6 x 100 = 4,800	0.8 x 6 = 4.8 and 0.6 x 8 = 4.8	0.08 x 6 = 0.48 and 0.06 x 8 = 0.48 and so on.
Relating addition facts to subtraction	8+5=13, so I also know…	5 + 8 = 13	13 – 8= 5	13–5= 8	13 = 8+ 5	13 = 5+ 8	5 = 13 - 8	8 = 13 - 5
Relating addition and subtraction to place value.	7+5= 12, so I can use that fact to create a fact web:	70 + 50 = 120 and 50 + 70 = 120	700 + 500 = 1,200 and 500 + 700 = 1,200	1,200 – 700 = 500 and 1,200 – 500 = 700	0.7 + 0.5 = 1.2 and 0.5 + 0.7 = 1.2	1.2 – 0.5 = 0.7 and 1,2 – 0.7 = 0.5	12,000 – 5,000 = 7,000	12,000 = 7,000 + 5,000 …and so on.

Spring Term Focus Facts:	
Common Multiples:	Apply knowledge of 2-12x tables to identifying common multiples. e.g. Multiples of 6 below 50: 6,12,18,24,**30**,36,42,48. Multiplies of 5 below 50: 5,10,15,20,25,**30**,35,40,45. The only common multiple is 30.
Factors	Factors of 48 are:1 x 48, 2 x 24, 3 x 16, 4 x 12, 6 x 8 so there are 10 factors and 5 factor pairs for 48. They are: 1,2,3,4,6,8,12,16,24,48
Review of past learning:	Review 2-12x tables regularly to keep skills sharp. Review number bonds to 20, doubles and near doubles.

Summer Term Focus Facts:	
Prime Numbers:	Whole numbers that can only be divided by themselves and one and which have only two factors: 1 and itself. We investigate prime numbers and learn the first seven prime numbers using the mnemonic: 'In the early morning astronomers spiritualised nonmathematicians' If you count the letters in each word, they give 2,3,5,7,11,13 and 17.
Common and prime factors of 48 & 20:	Factors of 48 are **1** x 48, **2** x 24, 3 x 16, **4** x 12, 6 x 8 Factors common are 1, 2 and 4.
Prime Factors	Prime factors of 42 are 1 x 42, 2 x 24, 4 x 13, 6 x 7 The prime factors of 42 are 2,7 and 13.



Year 6 Number Facts

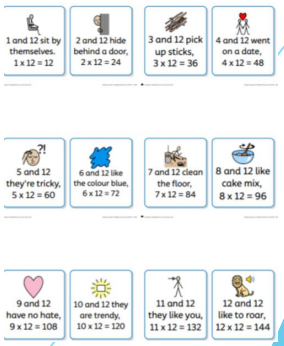
Autumn Term Focus Facts:	
Build mental agility with number facts	Use part-part-whole to solve number facts mentally. e.g. 84 ÷ 6 Partition (split) the 84 into 60 and 24, then work out 60 ÷ 6 and 24 ÷ 6.
Generate multiples of any number to aid long division	Write out 16x tables, using taught method: Use 1x16 to work out 10x16, then 5x16. Use 2x16 to work out 4x and 8x 16. Use 1 and 2x16 to work out 3x16 and 6x16. Use 2x16 and 5x16 to work out 7x16.
Be able to quickly generate multiples of 15,25,45,60,75,90 and 150.	15,30,45,60,75,90,105…and so on. 25,50,75,100,125,150…and so on. 45,90,135,180,225…and so on. 60,120,180,240…and so on. 75,150,225,300,375…and so on. 90,180,270,360,450,540…and so on. 150,300,450,600,750…and so on.

Spring Term Focus Facts:	
Review of Past Learning:	Review common multiples, common factors, prime numbers, prime factors (taught in Y5).

Summer Term Focus Facts:	
Review of past learning:	Review 2-12x tables regularly to keep skills sharp. Review number bonds to 20, doubles and near doubles. Continue to apply known number facts to solve rich 'mastery' problems and investigations.

Songs and links to aid Learning: MC Grammar (You Tube 2-12x tables songs)

Widgits & Rhymes:
Revisit 2-12x tables Widgits and rhymes to ensure secure recall of these essential, key number facts.



Key Considerations:

- It takes and average of 40 – yes 40 – times of practising a new fact to secure it! That means children **seeing**, **feeling/making/building**, **talking about** and **rehearsing** that fact over and over. Your support at home is really valuable in helping your child to learn their addition, subtraction, multiplication and division facts. They are needed to access further maths, problem-solving and reasoning. Not knowing facts holds pupils back: their brain is filled with working out the answer to a number fact rather than applying their thinking to reasoning and solving a maths problem – cognitive overload. Confidence in knowing number facts frees up the brain to work on more complex problems.

- Number Facts sheets and Widgits are shared with parents at start of each year during our *Meet the Teacher* evening.

- TTRS heat maps are shared at Parents' Evenings so that your child's progress with acquisition of number facts can be discussed. We promote the 3-4-5 rule for using TTRS to learn multiplication facts: practise 3-4 minutes 5 times a week on TTRS games and activities.

- We teach ONLY the MC Grammar songs, Widgit rhymes that have been carfuylly chosen so pupils are familiar with them and our approach is consistent. You will find them on your child's Number Facts sheet and Widgit multiplication tables rhymes will be sent home.

- **Planning in revisits of previously learned facts is essential.** If we don't use it, we lose it. Numbots and TTRS are great for this – and they're fun!

- Do speak with your child's teacher if you would like further advice or guidance.

