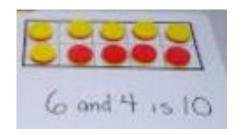
1 to 200 Number Square

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	3
31	32	33	34	35	36	37	38	39	4
41	42	43	44	45	46	47	48	49	51
51	52	53	54	55	56	57	58	59	6
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	8
81	82	83	84	85	86	87	88	89	91
91	92	93	94	95	96	97	98	99	10
101	102	103	104	105	106	107	108	109	11

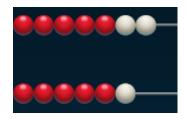




Agreed minimum standards of fluency in arithmetic by end of EYFS to Year Four

at

Gunthorpe Primary School





These objectives address the basic skills needed to be learnt by the end of each year group to enable children to access the problem solving and reasoning questions they will cover. The skills should be taught as part of Maths Meetings, as part of the introduction in main maths lessons and any other opportunites such as lining up for assembly, getting ready for lunch or playtime, etc.

In the first half of the Autumn term the previous year's objectives should be covered intiallly with the gradual introduction of others during the latter part of the half term. The skills may be covered in any order but need to be fully embedded so should be revisited on a regular basis. When targetting a particular objective please ensure that they also form part of the problem solving and reasoning questions covered in the main maths lessons.

Year	Objectives	Examples	Resources which could be used		
EYFS	Matching numerals to objects in a set, up to 10 Recognise and count numbers to 20		Conceptual/Perceptual TheGreat Race		
	To partition numbers up to 5 Subitise numbers up to 5 Know one more than, one less than a given number up	1 and 4, 2 and 3, 5 and 0 Show me 7, show me 1 less than	I have 5, 4 are red and		
	to 10 Counting forwards and backwards to 10 in 1s from any number within 10	7	1 is blue		
Y1	+ 0/- 0 to/from any single digit +/- bonds within 5 5 + facts	All green facts 4 + 1, $3 - 1$ etc. 5 + 1 = 6, $5 + 2 = 7$ etc.	Seven is seen as "5 and 2 more"		
	+1/-1 from numbers within 20 +0/-0 from numbers within 20	7 + 1/7- 1 etc. 15 + 0, 18 – 0 etc.	5 and 2 more Doubles		
	Doubles – up to double 5 Pairs equal to 10 and corresponding subtraction (yellow facts)	1 + 1, 2+2 etc. 10 + 0, 10 - 0, 9 + 1, etc.	I have 7, 5 are red and 2 are blue I have 7, 6 on the top and 1 on the bottom.		
	Count in 10s from 0 to 100 forwards and backwards State the next/previous multiple of 10				
	Partitioning single digit numbers Partitioning using PV 2dn up to 20	50, 60 or 70,60 Show me 7 in as many ways as you can	6 and 4 is 10		
	Counting forwards and backwards to 20 in 1s from any number within 20	11 is 10 and 1, 12 is 10 and 2	Double sided counters		
	Counting forwards and backwards to 20 in 2s - starting at 0		The Great Race (+1 + 2; -1, -2) Fingers, ladybirds, Matching numerals to		
	Counting forwards from 1 in 2s to 19		double answer		

Y2 +2/-2 up to 18 + 2

10 + /- facts up to 10 + 10 (Lilac facts)

White facts

Doubles – from double 6 to double 10

Near doubles

Half of even numbers up to 10

Next/previous multiple of 2

Counting forwards/backwards in 1s from any number up to 105

Counting forwards/backwards in multiples of 2 up to 104

Counting backwards in odd numbers from 21

Counting forwards and backwards in 10s from any number up to 110

State 10 more/fewer than any number up to 110 + 10/-10 from any number up to 110. (As a written calculation)

Partition and combine any 2-digit number

Multiples of 10 that equal 100

Recall key multiplication and division facts for 2, 5 and

10 times tables

4 + 2, 2 + 4, 6 - 2, 2 - 6 etc.

10 + 4, 15 - 5 etc.

6+3, 5+3, 8-3, 9-3

6 + 6, 7 + 7 etc.

4 + 5, 5 + 6 etc.

half of 8, half of 4 etc.

14, 16 or 18, 16 etc.

82, 81,80, 79 or 98, 99, 100, 101 etc.

68, 70, 72 or 102, 100, 98 etc.

21,19,17,15 etc.

6,16,26,36 etc.

16 and 26, 95 and 105 etc.

37 + 10 = 96 - 10 = etc.

27 is 20 and 7 etc.

80 and 20, 70 and 30 etc.

Must know 2x, 5x and 10x and use this to find others.





1	to	20	00	Nu	mb	er	Sq	uar	e
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	10
101	102	103	104	105	106	107	108	109	110

I know 4 + 4 = 8 so 4 + 5 = 9







Y3	All +/- facts to 20 (11 purple)	7+4; 7+5; 8+3; 8+4; 8+5;	4			
	1 1 /	8+6; 9+ 3 up to 9+7				
	Doubles up to double 20	Use 6 + 6 to move to 16 +				
	- cosses of to some - c	16	8888			
	Half of 20, 18, 16, 14, 12					
	+2/-2 from any 2dn	35 - 2, 49 + 2 etc.	Doubles/halves			
	Partitioning a 2digit number using a multiple of 10 and	27 is 10 and 17, 46 is 20 and	100100 2000			
	the number remaining	26 etc.	SECTION OF THE PROPERTY OF THE			
	Addition bonds = 100	46 + 54, 28 + 72 etc.	My 0 to 200 Number Line - Multiples of 10			
	Adding two multiples of 10 up to 200	70 + 20, 80 + 40 etc.	0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200			
	20 more or 20 fewer/less than any number up to 120	46 and 66, 78 and 58 etc.	1 to 200 Number Square			
	•	Must know 2x, 5x and 10x	1 2 3 4 5 6 7 8 9 10			
	Recall key multiplication and division facts for 3, 4 and	and use this to find others.	22 22 23 24 25 26 27 28 29 30 33 32 33 44 35 36 37 38 39 40			
	8s	$32 \times 10 = 320 \text{ and } 320 \div 10$	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 55 55 55 55 55 55 55 55 55 57 58 59 40			
	Multiply and divide by 10	=32 etc.	01 82 23 84 85 66 87 88 79 70 70 70 87 72 77 78 77 87 79 70 70 70 88 87 87 87 87 87 87 87 87 87 87 87 87			
	Count forwards and backwards from 0 in multiples of		91 92 93 94 95 96 97 98 99 100 100 102 103 104 105 106 107 108 109 107 100 100			
	50					
	Count forwards and backwards from 0 in multiples of					
	100					
Y4	+/- multiples of 10 to a 2dn (up to 100)	34 + 30, decrease 97 by 40	1 to 200 Number Square			
		etc.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18 17 18 17 20 22 22 21 24 25 25 18 27 28 29 10			
	Doubling numbers up to 50	Double 6 links to double 16,	33 32 33 34 35 36 37 33 39 40 40 41 41 42 43 44 45 46 47 48 49 50			
		26 etc	51			
	Halving even numbers to 100	Half of 84, half of 76 etc.	18 82 73 84 95 96 97 98 99 90 99 92 93 94 95 96 97 98 99 100			
	+/- 10 and 100 to 3dn	123 = 10,345 - 100 etc.	101 102 103 104 105 106 107 108 09 110			
	+/- Bonds to 100	75 + 25, 67 + 33, 100 -? =				
		64 etc.				
	Subtraction facts – difficult points – finding the	12 - 8; $13 - 7$; $15 - 8$ etc.				
	difference (use part/whole model to show link)					
	All remaining times tables	Must know all x2, x5 and				
	_	x10 tables and use this to				
		find others.				
	Multiply and divide by 10 and 100	23 x 100 =2300 and 2300 ÷				
	Count forwards and backwards from 0 in multiples of	100 = 23				
	25					
	Count forwards and backwards from 0 in multiples of					
	1000					

Count backwards and forwards through zero to include negative numbers		
https://apps.mathlearningcenter.org/number-rack/ https://www.parentingscience.com/preschool-math- games.htmlhttps://www.ncetm.org.uk/resources/52219	Rekenrek website Great Race explanation	
	Breaks down arithmetic into very small steps.	