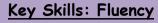# St Meriadoc CE Infant Academy: Non-Negotiables

KIRFs/Times tables to be practiced on a daily basis by all classes to ensure all other skills are embedded.

Mental Mathematics

	Nursery 1	Nursery 2	Reception	Year 1	Year 2
Mental Mathematics	Count in 1's from 0-5 and beyond, forwards and backwards **(through songs, chants and rhymes).** Subitise to recognize amounts of objects/pictures to 3 without counting, e.g in the role-play area with food. Notice quickly when a group has 'more' or 'a lot' of objects compared to another.	Count in 1's from 0-10 and beyond, forwards and backwards. **Subitise to recognize amounts of objects/pictures to 3/4 without counting.** **Make finger amounts quickly to 5.** Recognise Numicon pieces **to 5 and match to a numeral** – by their shape and colour. Notice quickly when a group has 'more', 'a lot' or the same number of objects compared to another. **Follow a positional language instruction quickly.** Recall names of simple 2D and some 3D shapes.	Count in 1s from 0-20 and beyond forwards and backwards. Subitise amounts to 5. **Recall number bonds to 5 (without aids) – addition and subtraction facts.** **Recall some number bonds to 10 (without aids) – addition and subtraction facts.** **Recall the double facts to double 6.** **Recall and spot odd and even numbers within 10.** **Compare sets of objects to 10** - Use the language of 'greater than', 'less than', 'fewer' and 'the same' to compare two sets of objects quickly. Say one more/less than a given number. Add simple numbers mentally, including the doubles e.g. 1+1, 2+2, 3+3, 4+4, 5+5.	**Count in 1s from 0-100 forwards and backwards from any number.** **Confidently count in 2,5 and 10 times tables and answer corresponding questions.** KIRFs: • Number bonds for each number to 10. • Doubles and halves of numbers to 10. • Tell the time to the nearest hour and half hour. Know that addition can be done in any order. Find a small difference by counting up. Know how to add 9 to a number by adding 10 and subtracting 1.	**Confidently count in 2,5,10,3 times tables and answer corresponding questions.** KIRFs: • Revision of number bonds to 10. • Number bonds for each number to 20. • Doubles and halves of numbers to 20. • Multiplication and division facts for the 2, 5 and 10 times tables. • Tell the time to the nearest hour, half hour, quarter hour, 5 minutes. Addition facts:

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			Subtract simple numbers mentally, including a half of a double, e.g. 2-1, 4-2, 6-3, 8-4, 10-5. Begin to count in steps of **2, 5 and 10** Recall names of 2D shapes. Know simple properties of 2D shapes. Know some names of 3D shapes. Mathematical reasoning and explaining strategies.	Use addition and subtraction as inverse operations. Know days, months and seasons in order. Know properties of 2D and some 3D shapes e.g. name the shape. Practice counting around the clock- 5's, 10's etc and use appropriate language. Understand how to read scales quickly. Mathematical reasoning and explaining strategies.	**Subtrcation facts:** (subtraction facts grid) Find a difference by counting up using 2-digit numbers. Know patterns of similar calculations e.g. 3+5=8, 13+5=18, 30+50=80. Know the inverse calculations for addition and subtractions when asked and prompted.

Subtraction facts grid (rows 0–20 subtracting 0–10):

-	0	1	2	3	4	5	6	7	8	9	10
0	0-0										
1	1-0	1-1									
2	2-0	2-1	2-2								
3	3-0	3-1	3-2	3-3							
4	4-0	4-1	4-2	4-3	4-4						
5	5-0	5-1	5-2	5-3	5-4	5-5					
6	6-0	6-1	6-2	6-3	6-4	6-5	6-6				
7	7-0	7-1	7-2	7-3	7-4	7-5	7-6	7-7			
8	8-0	8-1	8-2	8-3	8-4	8-5	8-6	8-7	8-8		
9	9-0	9-1	9-2	9-3	9-4	9-5	9-6	9-7	9-8	9-9	
10	10-0	10-1	10-2	10-3	10-4	10-5	10-6	10-7	10-8	10-9	10-10
11		11-1	11-2	11-3	11-4	11-5	11-6	11-7	11-8	11-9	11-10
12			12-2	12-3	12-4	12-5	12-6	12-7	12-8	12-9	12-10
13				13-3	13-4	13-5	13-6	13-7	13-8	13-9	13-10
14					14-4	14-5	14-6	14-7	14-8	14-9	14-10
15						15-5	15-6	15-7	15-8	15-9	15-10
16							16-6	16-7	16-8	16-9	16-10
17								17-7	17-8	17-9	17-10
18									18-8	18-9	18-10
19										19-9	19-10
20											20-10

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					Add and subtract mentally: a two-digit number and ones, a two-digit number and tens, two two-digit numbers, adding three one-digit numbers.
					Use knowledge of number facts and place value to multiply or divide mentally e.g.10/2= 5
					Know left/right, quarter, half and three-quarter turns and show this physically.
					Know the properties of 2D and 3D shapes and describe them accurately.
					Understand how to read and interpret scales accurately.
					Mathematical reasoning and explaining strategies.