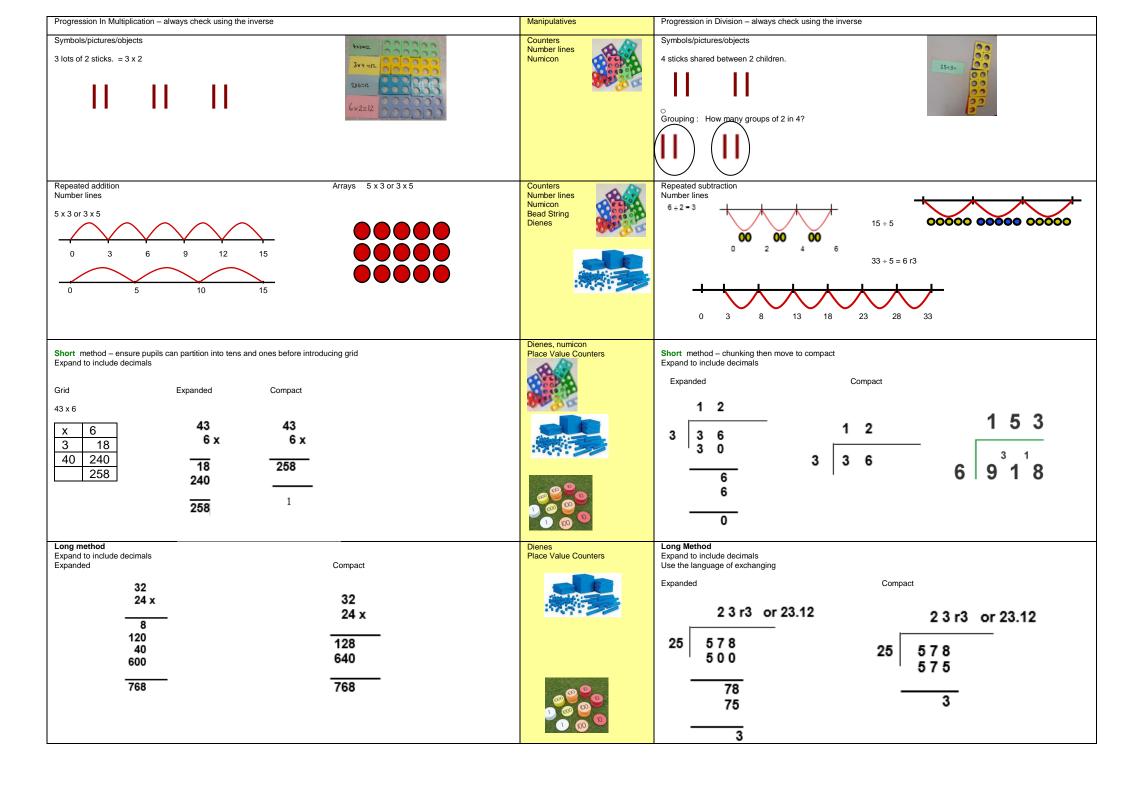


Pucklechurch Calculation Strategy

Progression In Addition – always check using the inverse			Manipulatives	Progression in Subtraction – always check using the inverse				
Symbols/Pictures			Counters Number lines	Symbols and Pictures Mum baked 9 biscuits. I ate 5. How many were left?				
8 people are on the bus. 5 more get on at the next stop. How many people are on the bus now?							Numicon	
			un mil		 	+++		D
		00	# #		Might be recorded as: 9	- 5 = 4I		B
[Might be recorded as: 8 + 5 =	13]	2 +	5 = 7	0000		<u> </u>	13 - 8	= 5
Number track / Number line an	d Beads			Counters	Number track / Number I	line and Beads	10	- •
18 + 5 = 23				Number lines				
000000000000000000000000000000000000000	0000-00000	34 + 23 = 57		Numicon Bead String	13 – 5 =8		47 - 23 = 24	
+1 +1 +1 +1 +	+1		+1 +1 +1	Dienes	00000			24 27 37 47
34 44 54 55 56 57								~-3/~-10/~-10/
18 19 20 21 22 23 24					8 9 10 11 12 13			
18 19 20 21 22	23 24				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\overline{\wedge}$		
Column Addition - Evened to include decimals			Dienes	<u> </u>				
Column Addition - Expand to include decimals Model partitioning for expanded written method first.			Place Value Counters Place Value Cards	Column Subtraction- Expand to include decimals				
					38			
12	18							
+ <u>25</u>	+ <u>25</u>				- <u>12</u>			
7	+ <u>25</u> 13			200 20 2	6			
30	30			300 30	+ <u>20</u> 26			
<u>30</u> 37	<u>30</u> 43				26			
31	43							
					Use the language of exc	hanging		
Use the language of carrying								7 9
12	18	43	74		38	6 ¹3	\$ 213	8 0 O
27 x 11 25 x x 25 x 50 x	500-4-23-1403-0	2-000-000-000-0			100	p o	4 4 3	<i>P Y</i> •
+25	+25	+91	+67		- 12	- 1 5	- 59	- 43
37	43	134	141		26	4 8	464	757
			A		20	40	404	131
	1	1	1 1					

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
May buys 8 red apples and 6 green apples from the fruit shop. How many apples does she buy altogether? Rebeena has 8 ice lollies. She gives 5to her friends. How many does Rebeena have left?	Victoria has drawn 10 pictures in her sketch pad. Javeria has also drawn 10 pictures. How many pictures have they drawn altogether? Alfie buys a lolly for 12p and a packet of crisps for 20p. How much money has he spent?	Alicia collected 97 badges. Her mum bought her 45 more badges. How many badges does she have now? Alicia collected 97 badges. She gave 53 away to her friend. How many has she got left?	At a netball match, there are 126 people supporting the blue team and 178 supporting the yellow team. How many people are watching the game altogether? Tom, sells 1535 pies on Monday and 1219 on Tuesday. How many more pies did he sell on Monday compared to Tuesday?	There are 3257 people at the rugby match. This is 1138 people more than last week. How many people were at the match last week? There were 5834 guests staying at the holiday resort during one week. The next week, there were 3425 guests staying. How many more people stayed at the resort during the first week?	There are 1250 letters in Post Box A and 2350 letters in Post Box B. a) How many letters are there altogether? b) The postman delivers 2640 letters. How many letters still need to be delivered?



Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Vear 1 Liam counts on in fives from the number 22. What are the next 2 numbers he counts? Poppy eats 6 grapes. Alice eats half as many. How many grapes does Alice eat?	Year 2 2 teams are playing basketball. There are 5 players in each team. How many people are playing basketball altogether? 15 sweets, shared between 5 . How many each ?	One bag holds 4 tomatoes. How many tomatoes are in 2 bags? I have 48 apples, how many can each child have if there are 8 children in the group?	Year 4 Charlotte drew a line 3 cmlong. Then she made the line 3 times longer. How long would 6 of these longer lines be, drawn end to end? Dominic's grandma and grandad always give him £36 on his birthday. He shares	In Mr Pott's garden, there are 7 rows of tomato plants. Each row has 435 tomato plants. How many tomato plants are in the garden altogether? There are 386 apples that need to be put into boxes containing 5	There are 98 junior children in Daisyhill School. In assembly, children sit in rows of 18. a) How many full rows can be made? b) How many children are left over? We need 143 rows of chairs. Each row needs
			this between 5 friends ? How much does he	apples per box. How many full	19 chairs. How many chairs are needed?
			have left over ?	boxes of apples can be made altogether? How	criairs are needed ?
				many apples are left?	