## Dereham Church Infant and Nursery School- Mathematics

Courter Infant and Although Song	Year group: 1	Area/topic: Mathematics- Addition and subtraction within 20
	<ul> <li>(-) and equals (=) signs</li> <li>Add and subtract I-digit and 2-digit no</li> <li>Represent and use number bonds and .</li> <li>Solve one-step problems that involve of</li> </ul>	5

Prior learning	Future learning	
In the Autumn term, children were taught how to	Children will apply this learning particularly in	
add and subtract within 10	the next block place value	

What pupils need to know or do to be secure				
Key knowledge and skills	Possible evidence			
<ul> <li>Add by counting on within 20</li> </ul>	Use ten frame to complete a number story			
<ul> <li>Add ones using number bonds</li> </ul>	Photos of using cubes to add			
<ul> <li>Find and make number bonds to 20</li> </ul>	Completed part whole models			
• Doubles	Draw pictures to show doubles eg stars-			
	hards etc			
• Near doubles	Photos of using counters in a ten frame			
	to solve near double questions			
<ul> <li>Subtract ones using number doubles</li> </ul>	Play a game, ask one child to stand on			
	10 and another on 20. Roll a dice and			
	ask both children to hop back along their			

<ul> <li>Subtract- counting back</li> <li>Subtract- finding the difference</li> <li>Use related facts</li> <li>Missing number problems</li> </ul>	notice Provi match Draw Comp Use n	the number rolled. What do they a about where they have landed? de pictures- ask children to write ning first, then, now sentences. bars models to compare lete fact families for given numbers umber lines and see how many a are needed to get to the given er
Key vocabulary		
Altogether, double, same, difference, equal, forwards,		
backwards, difference, more, fewer, addition, subtraction,		
add, subtract, part, whole, first then now, Common misconceptions		Pacha linhing to this grag
		Books linking to this area
Children may count all the items, starting from I, rather than counting on from one of the numbers in the addition.		Mr Gumpy's outing by John Burningham
• Children may always start from the first number in the		
addition, rather than starting from the greater number.		Double the ducks by Stuart Murphy
If children are not secure with number bonds within 10, they		
may make errors when trying to find the related facts within 20		
• Children may not see that they can use a single number bond		
within 10 to find two different addition facts within 20, for		
example using 3 + 2 to work out both 13 + 2 and 12 + 3		
Children may add a 10 to both numbers, for example 14 + 16 =		
20 • Children may miscalculate if they are using counting on		
as a strategy for working out the number bond. Using		
equipment such as ten frames can help with this. • Some		
children may think that double 2 is 22 or double 3 is 33,		
because they can see the number twice. • Children may find		

doubles beyond double 5 more challenging as they cross 10 • When counting back, children may include the start number. For example, when working out 15 – 4, they may count "15, 14, 13, 12". • Children may write calculations the wrong way around if they do not understand the importance of order when subtracting, thinking that it is the same as addition, where the order does not matter. For example, they may write 4 – 15 but still give the answer 11	
Memorable first hand experiences	Opportunities for communication
Use a range of manipulatives. Games on the playground using chalked number tracks	Ask key questions and discuss
Use large pieces of A2 paper to draw ten frames and place counters on.	Discuss and answer stem sentences provided by White Rose
	Discuss/debate What's the same/what's different?

## DCINS Reasonable adjustments for pupils with SEND

Communication and Interaction	Cognition and Learning	
Use a range of visual aids	Check understanding regularly	
Give clear instructions one at a time	Allow rest breaks	
Repetition	Give thinking time	
Provide simple instructions Pre teach vocabulary	Colour code signs that could be confusing Work checklists	
Use working wall where modelling is displayed	Break down tasks into small steps	
Give children thinking time Model task	Give opportunities for over-learning	
Social, Emotional and Mental health	Sensory and Physical	
Allow access to a quiet and calm space	Consider carpet space position	
Give child a special role to increase self esteem	Reduce background noise	
Provide a visual support-what to do if you are	Provide a range of manipulatives- dienes may be	
stuck	too small	
Provide a movement break	Appropriate seating	
Seat pupil by more confident peer	Wobble boards	
Now and next board	Writing slope	
	Enlarge text	
Sand timers		
Sand timers Movement breaks	Variety of writing tools available	