## Addition KS1

EYFS	<ul> <li>Reception: ELG 2022</li> <li>Number ELG</li> <li>Children at the expected level of development will: <ul> <li>Have a deep understanding of number to 10, including the composition of each number;</li> <li>Subitise (recognise quantities without counting) up to 5;</li> <li>Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.</li> </ul> </li> <li>Numerical Patterns ELG Children at the expected level of development will: <ul> <li>Verbally count beyond 20, recognising the pattern of the counting system;</li> <li>Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity;</li> <li>Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.</li> </ul> </li> </ul>									
Year		1		2						
	Concrete, pictorial, abstract			Concrete, pictorial, abstract						
Developing Conceptual/ Procedural Understanding	Number bonds Number bonds 10=5+5 We have 10 pegs on the coathangers, how can we split them into 2 groups? Is there another way? How can we be sure we have got them all? Ten Frames 2+ = 10 $10- = 35+ = 10$ $10- = 910- 0= =Hungarian frames$	$\begin{array}{c} & & & & \\ \hline & & & \\ \hline & & & \\ \hline \\ \hline \\ \hline$	Whole-part model $\begin{array}{c c} 20 \\ \hline 2 \\ 2 \\ 2 \\ \hline 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\$	Base 10 Whole-part model	Adjustment strategy 5+9 = 5+10-1=14 +10 -1/4 + 75 -1/4	Partition and recombine Record partitioned steps in number sentences then add mentally. 40+20=60 6+7=13 60+13=73 Moving on to: 46+27=60+13= 73 To Regrouping the 10. Balance in the equation 14=8+6, 7+6=8+5 $\Box=13+9$ $3+\Box+6=16$ $14+\diamondsuit=15+27$				

Dothill March '23

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			Addition KS	S1			
	Use the pattern to complete the number sentences.	10 = 3+7 10 = 7+3 10 - 7 = 3 10 - 3 = 7	10 = 10 10 = 8 + 2 10 = 6 + 4 8 + 2 = 6 + 4	Adding more than two numbers Strategy to include looking for facts or bonds that are useful e.g. bonds up to and including 10, doubles or adding 10 to a given number. 6+3+4=13 6+3+4+7+2=22 Record thinking.	3+1, 2+2 18+4= Rea the 4 into 18+2+2= 2 59+24 = 1 the 24 into and rearra into 1+3. So 59+24= 59+20+1+ 59+1+20+	arrange 2+2 20+2 =22 Partition o 20 +4 ange the 4 = 3 = 3 = 83	Decision making Using statements such as: Ben did 14 + 9 = 23 How could he have done it? When secure, children can move on to column addition: 1 4 + 2 3 3 7
Known facts	Represent & use number bonds and r Add and subtract 1 digit and 2 digit nu	elated subtraction f umbers to 20, includ	acts within 20 ling zero	Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100.			
Essential	1 more	Numbe	r bonds: 5 and 6	10 more		Number bonds:20,12 and 13	
Knowledge	Largest number first.	Numbe	r bonds: 7 and 8	Add 1 digit to 2 digit by bridging		Number bonds: 14 and 15	
	Add 10.	Number	r bonds:9 and 10	Partition second number and add Nun tens then ones.		Numbe	er bonds: 16 and 17
	Ten plus ones.	Use number bi	bonds of 10 to derive onds of 11	Add 10 and multiples of 10. N		Numbe	Number bonds: 18 and 19
	Doubles up to 10.			Doubles up to 20 and multiples of 5.		Partiti	on and recombine.
				Add near multiples of	10.		

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