



Calculation Policy Addition

September 2023



Addition:

EYFS:			
Vocabulary :	first, then, now, add, plus, altogether, total, part, whole	Manipulatives & scaffolds:	Fingers Five frames Ten frames Double sided counters Numicon Cubes Bead strings Part-whole model
Small step: Combining two	Concrete: Children begin to combine 2 groups of	Pictorial:	Abstract: How many can you see?
groups	objects to find how many there are altogether		How many can you see? How many can you see altogether?
Adding more	Combine two groups of objects using practical resources, role play, stories and songs:	First there were 2 people on the bus. Then 2 more people got on the bus. Now there are 4 people on the bus.	4 + 3 =



	5+3=8		
How many did I add?	To follow March 24		
Y1			
Vocabulary:	add, plus, altogether, total, part, whole, 2-digit number, sum, addition, more, and, makes, double	Manipulatives & scaffolds:	Ten frames Double sided counters Numicon Cubes Bead strings Part-whole model Bar model
Small step:	Concrete:	Pictorial:	Abstract:
Understand part and whole relationships	Here are some frogs. Can you see two groups of frogs? How many frogs are in each group? Complete the sentences is a part is a part. The whole is	is a part is a part The whole is	is a part is a part The whole is
Write number sentences	Here are some counters. Group the counters by colour red counters plus yellow counters is equal to counters.	2 + 3 = 5	



Fact families – addition facts	First there were 3 children on the bus. Then 2 more children got on the bus. Now there are 5 children on the bus.	+=7	5 + 1 = 6 1 + 5 = 6 6 = 5 + 1 6 = 1 + 5
Number bonds within 10	3+2=5	4+1=5 4+6=10	6 4 + 2 = 6 4 2
Add together	4 + 3 = 7	3 + 4 = 7	4 + 3 = 7
Add more	Put 2 counters in a tens frame. Now add 8 more counters. How many counters are there altogether?	4 + 3 =	0 1 2 3 4 5 6 7 8 9 10 5+=
Add by counting on within 20	First	Ann has 13 marbles. She gets 5 more marbles. How many marbles does Ann have now?	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 9+6=



	First there were 5 counters Then I added 3 Now there are 8 counters		
Adding ones using number bonds	14 + 2 =	14 + 2 =	12 + 4 =
Find and make number bonds to 20	16 + 4 = 20	4 + 16 = 20	20 = + 20 = +
Doubles	Double 7 is	Double 4 is	Double is
Near doubles	6 + 7 = 6 + 6 + 1 =	6 + 7 = double plus	Use doubles to work out the near doubles: 4 + 5 = 6 + 7 = 8 + 7 =
	Double 6 + 1 =		

Y2			
Vocabulary:	add, plus, altogether, total, part, whole, 2-digit number, sum, addition, more, and, makes, double, ones, tens, partition, bonds, commutative	Manipulatives & scaffolds:	Ten frames Double sided counters Numicon Cubes Base 10/Dienes Part-whole model Bar model Number line Place value charts
Small step:	Concrete:	Pictorial:	Abstract:
Bonds to 10	+ = 10	5 + <u> </u>	+ = 10 10 = +
Fact families – addition bonds within 20			+_=_ +_=_ =+_ =+_
Bonds to 100 (tens)	4 = 6 = 10 40 + 60 = 100		+ = 100 100 = +



Add ones	24 + 1 = 25	25	46 + 1 = 46 + 2 = 46 + 3 =
Add by making 10	6 + 5 = 10 + 1 = 11	6 + 5 = 10 + 1 = 11	7 + 4 = 11 If I have seven, how many more do I need to make ten? How many more do I need to add?
Add three 1- digit numbers	7 + 2 + 3 =	4+6+6	7+5+3= 7+5+3=15 10
Add to the next 10	The Base 10 shows 34 How many tens are there in 34? What is the multiple of 10 after 34? How many ones are there in 34? How many more ones do I need to add to get to	67 + <u> </u>	45 + = 50 81 + = 90 32 + = 40



	the next multiple of 10? 34 + =		
Add across a ten		26 27 28 29 30 31 32 33 34 35 26 + 5 = 31	67 + 5 =
	38 + 5 = 40 + 3		
10 more	25 + 10 = 35	25 10	25 + 10 = 35 10 + 25 = 35 35 = 25 + 10 35 = 10 + 25
Add 10s	57 + 30 = 87	1\ \docksymbol{+} \left = \left \left \docksymbol{24 + 40 = 64}	23 + 10 54 + 40
Add two 2-digit numbers (not across a ten)	60 8 = 68	45 + 34 = T O IIII :: 111 :: 70 + 9 = 79	52 + 14 23 + 31



	26 + 37 = 20 + 30 = 50 6 + 7 = 13 50 + 13 = 63	26 + 37 = T O	26 + 37 46 + 27 = 17 + 33 =
Y3			
Vocabulary:	add, plus, altogether, total, part, whole, 2-digit number, sum, addition, more, and, makes, double, ones, tens, partition, bonds, exchange, regroup, hundreds	Manipulatives & scaffolds:	Ten frames Double sided counters Numicon Cubes Base 10/Dienes Part-whole model Bar model Number line Place value charts Place value counters
Small step:	Concrete:	Pictorial:	Abstract:
Apply number bonds	2+3=5 20+30=50	8 + 2 = 8 + 20 = 80	2 + = 5 20 + = 50
Add ones	Hundreds Tens Ones	H T O	354 + 4 215 + 3 461 + 8



	243 + 5 =	222 + 4 =	
Add tens	Hundreds Tens Ones	H T O	546 + 30 743 + 50 229 + 60
	243 + 20 =	226 + 30 =	
Add hundreds	Hundreds Tens Ones	H T O	378 + 400 579 + 300 285 + 600
	243 + 200 =	256 + 300 =	
Add 1s across a ten	Hundreds Tens Ones 243 + 9 = 243 + 7 = 250 + 2 = 252	248 + 6 = 248 + 2 = 250 + 4 = 254	248 + 9
Add 10s across a hundred	60 + 50 = 60 + 40 = 100 100 + 10 = 110	350 + 80 = 350 + 50 = 400 + 30 = 430	695 + 80 476 + 60



Add two numbers (no exchange)	Tens Ones T 0 3 4 + 2 3	H T O DDD III : B 3 4 5 + 4 3 2	H T O 5 2 4 + 3 7 3
Add two numbers (across a ten)	Hundreds Tens Ones H T 0 2 0 8 + 3 1 3 5 2 1	Tens Ones 38 + 23 61 1	H T O 7 1 9 + 1 5 3
Add two numbers (across a hundred)	Hundreds Tens Ones H T O 4 6 6 + 3 5 3 8 1 9	Hundreds Tens Ones 265 + 164 429 1	H T O 3 6 7 + 2 9 1
Add 2-digit and 3-digit numbers	Hundreds Tens Ones H T O 2 5 5 + 5 4	H T O 3 1 7 + 4 6 3 6 3 1	537 + 82 =
Y4			
Vocabulary:	add, plus, altogether, total, part, whole, 2-digit number, sum, addition, more, and, makes,	Manipulatives & scaffolds:	Ten frames Double sided counters



	double, ones, tens, partition, bonds, exchange, regroup, hundreds, thousands		Numicon Cubes Base 10/Dienes Part-whole model Bar model Number line Place value charts Place value counters
Small step:	Concrete:	Pictorial:	Abstract:
Add up to two 4-digit numbers – no exchange	Th H T O Th H T O Th H T O Th H T O 3 2 5 6 + 2 5 3 2	Th H T O 00 000 000 000 1 2367 4221	Th H T O 3 1 4 2 + 5 3 7
Add two 4-digit numbers – one exchange	Th H T O T O	2458 + 3424	4 3 7 8 + 2 4 1 9 6 7 9 7
Add two 4-digit numbers – more than one exchange	Th H T O Th H T O Th H T O Th H T O A 6 7 3 Th 1 5 1 8 6 1 9 1 7 1 1 7 1	2634 + 4517	Th H T O 1 9 4 5 + 1 2 5 7 3 2 0 2
Y5			
Vocabulary:	add, plus, altogether, total, part, whole, 2-digit number, sum, addition, more, and, makes,	Manipulatives & scaffolds:	Ten frames Double sided counters



	double, ones, tens, partition, bonds, exchange, regroup, hundreds, thousands, decimals, tenths, hundredths, thousandths, decimal point		Numicon Cubes Base 10/Dienes Part-whole model Bar model Number line Place value charts Place value counters
Small step:	Concrete:	Pictorial:	Abstract:
Add whole numbers with more than four digits	HTh Th H T 0 1 0 4 3 2 8 + 6 1 7 3 1 1 1 6 6 0 5 9	HTL TL H T 0 26509 + 44643	1 0 4 3 2 8 + 6 1 7 3 1 1 6 6 0 5 9
Add decimals	0.7 + 0.5	0.45 + 0.67	
across one	0.7 + 0.3 = 1 1 + 0.2 = 1.2 0.7 + 0.5 = 1.2	0.45 + 0.67 = 1 + 0.12 = 1.12 0.55 0.12	0.74 + 0.42
Add decimals with the same number of decimal places	Ones Tenths Hundredths 1	2.62 101 01 01 01 00 00 01 01 01 01 01 01 01	3 . 6 5 + 2 . 4 9 6 . 1 4



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ded counters Dienes e model
ne e charts e counters
:
4 3 5 2 3 2 7 3 1 4 7 0 8 3 7
2 3 · 3 6 1 9 · 0 8 0 5 9 · 7 7 0 + 1 · 3 0 0 9 3 · 5 1 1
4 2 7 1

