

Calculation Policy Addition

April 2024



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:	Concrete:	Pictorial:		Abstract:
Combining two groups	Children begin to combine 2 groups of objects to find how many there are altogether	•	••	How many can you see? How many can you see? How many can you see altogether?
1 more	There are 7 altogether. 1 more than 6 is 7. 7 is 1 more than 6.		There are 7 (starfish). 1 more than 7 is 8. 8 is 1 more thn 7.	There are altogether is 1 more than is 1 more than is



Combine two groups	There are 3 here and 4 there. There are 7 altogether. 3 and 4 make 7.	There are 4 dots and 2 dots. There are 6 altogether. 4 and 2 make 6.	There are here and there. There are altogether and make
Bonds to 10 (2 parts)	The whole is 10. 6 is a part and 4 is a part. 6 and 4 are a bond to 10. If 6 is a part then the other part must be 4.	The whole is 10 If 6 is a part then the other part must be 4. 6 and 4 are a bond to 10.	The whole is is a part and is a part and are a bond to 10 If is a part, then the other part must be
Bonds to 10 (3 parts)	Use 3 Numicon pieces to cover a 10 piece. The whole is 10. I can see that 10 is made up of 6 and 3 and 1.	There are 10 counters, the whole is 10. I can see that 10 is made up of 5 and 4 and 1.	I can see that 10 is made up of and
Adding more	Use 'first, then, now' number stories to find the answer to the question "How many now?" by providing meaningful contexts	First there were 2 people on the bus. Then 2 more people got on the bus. Now there are 4 people on the bus. 5 6 7 8 9 10	First there were Then more were added. Now there are There are altogether



	First there were 5 people. Then there were 3 more. Now there are 8.		
How many did I add?	Provide children with 'first, then, now' number stories where the 'then' part is missing: "There were 6 children on the bus, then we don't know how many more got on, but now there are 8 children on the bus. Represent the starting number with yellow counters and then add red counters until they reach the total amount. The number of red counters represents the number that has been added.		First there were Now there are were added I added
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 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	4 + 2 = 6



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 Then Now First there were 5 counters Then I added 3 Now there are 8 counters	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=
Adding ones using number bonds		14 + 2 =	12 + 4 =



Find and make number bonds to 20 Doubles	14 + 2 = 16 + 4 = 20 Double 7 is	4 + 16 = 20 Double 4 is	20 = + 20 = + Double is
Near doubles	6+7= 6+6+1= Double 6+1=	6+7 = double plus	Use doubles to work out the near doubles: $4 + 5 = 6 + 7 = 8 + 7 =$
Y2	Double 0 + 1 =		
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 + = 10	+ = 10 10 = +
Fact families – addition bonds within 20			+ = + = = + = +
Bonds to 100 (tens)	4 = 6 = 10 40 + 60 = 100	<pre></pre>	+ = 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 the next multiple of 10? 34 + =	67 + <u> </u>	45 + = 50 81 + = 90 32 + = 40
Add across a ten		26 + 5 = 31 26 + 5 = 31 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\ \docksightarrow _ + \ \docksightarrow _ = \ \docksightarrow _ \	23 + 10 54 + 40
Add two 2- digit numbers (not across a ten)	60 8 = 68	45 + 34 = T O	52 + 14 23 + 31
Add two 2- digit numbers (across a ten)	26 + 37 = 20 + 30 = 50	26 + 37 = T O ::	26 + 37 46 + 27 = 17 + 33 =



	6 + 7 = 13	6 + 7 = 13	
	50 + 13 = 63	50 + 13 = 63	
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 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 243 + 200 =	256 + 300 =	378 + 400 579 + 300 285 + 600
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	H T O DDD III : DDD III : 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 4 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 0 2 5 5 + 5 4	H T O 3 1 7 + 4 6 3 6 3	537 + 82 =
Y4 Vocabulary:	add, plus, altogether, total, part, whole, 2-digit number, sum, addition, more, and, makes, double, ones, tens, partition, bonds, exchange, regroup, hundreds, thousands	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:
Add up to two 4-digit numbers – no exchange	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 0000 0000 0000 0000 00	Th H T O 3 1 4 2 + 5 3 7
Add two 4- digit numbers – one exchange	Th H T O Th H T O 3 3 3 5 6 + 2 4 3 5 5 7 9 1	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 T O T T T T T T T T T T T T T T T T	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, double, ones, tens, partition, bonds, exchange, regroup, hundreds, thousands, decimals, tenths, hundredths, thousandths, decimal point	Manipulatives & scaffolds:	Ten frames Double sided counters Numicon Cubes Base 10/Dienes Part-whole model Bar model Number line Place value counters



Small step:	Concrete:	Pictorial:	Abstract:
Add whole numbers with more than four digits	HTh TTh Th H T 0 1 0 4 3 2 8 + 6 1 7 3 1 1 1 6 6 0 5 9	HTh Th H T O 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 = 12 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	Ones	2.62 + 2.41	
number of		• • • • • • · · · · · · · · · · · · · ·	3 . 6 5
decimal places			+ 2 . 4 9
places			6 . 1 4
			1 1
Add decimals	O Tth Hth 1 1 3	0 · t h 6.2	
with a different	+ 3 · 5 2	+ 3.79	0 • 0 4 19 • 01
number of		000 . 000 000	+ 9 • 9 + 0 · 70 23 · 36
decimal		9 9	23 30
places			
Y6			
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, integer		Numicon Cubes Base 10/Dienes Part-whole model Bar model Number line Place value charts Place value counters
Small step:	Concrete:	Pictorial:	Abstract:
Add integers	HTh Th H T 0	260867 + 163747	5 4 3 5 2 3 + 2 2 7 3 1 4 7 7 0 8 3 7
Add decimals	T 0 Tth Hth 4 2 + 6 0 + 3 + 0 2 + 4 5 + 6 2	1.73 + 21.69 =	Insert zeros for place holders. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

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