# **EYFS** Addition

#### Strategies -

Early Learning Goal: Children to count reliably with numbers one to 20, place them in order and say which number is one more or one less than a given number. Using quantities and objects, they add and subtract two single-digit number and count on or back to find the answer.



# 1 Addition

National Curriculum

- Read, write and interpret mathematical statements involving addition (+) and equals (=) signs This means the same as relate this to balance number sentences and scales.
- Represent and use number bonds and related subtraction facts within 20.
- Add one-digit and two-digit numbers to 20, including zero
- Solve one-step problems that involve addition, using concrete objects and pictorial representations, and missing number problems such as 9 = \_\_\_\_\_ + 7

Vocabulary	Concrete	Pictorial	Abstract	
Number bonds Number line	Tans 2000	Counting on: Learning that starting from the	17 = 5 + 12	
Add Addition More Plus Make Sum Total Altogether	Using Numicon to investigate the creation of 10 and above. First steps to bridging.	larger number is more efficient 15 = 12 + 3 15	Place the larger number in your head and count on the smaller number to find the answer. <b>7 + 4 = 11</b>	
How many more? How many more is than	00000000000000000000000000000000000000	or partition the smaller number to make 10. 9 + 5 = 14	If I am at seven, how many more do I need to make 10. How many more do I add on now?	
Part/Whole Commutative Law	9+5 =14         Start with the bigger number (9) add to make 10 (1), then add the remaining smaller number (4)         Image: the text of the text of the text of tex of tex of text of text of tex of text of text of tex	$\begin{array}{c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$	5 + 9 = 14 9 + 1 = 10 10 + 4 = 14 If I have nine, how many more do I need to make 10? How many more do I add on now? Commutative Law – Addition can be done in any order 15 + 1 = 1 + 15	

### Year 2 Addition

National Curriculum:

Solve Problems with Addition:

- Using concrete objects and pictorial representations, including those involving number, quantities and measures
- Applying their increasing knowledge of mental and written methods
- Recall and use addition facts to 20 fluently, and derive and use related facts up to 100
- Add numbers using concrete object. Pictorial representation, and mentally, including:
- A two digit number and ones
- A two digit number and tens
- 2 two digit numbers
- Adding 3 one digit numbers
- Show the addition of two numbers can be done in any order (commutative) and subtraction from one number from another cannot.
- Recognise and use the inverse relationship between addition and subtraction and use this to check calculations, and solve missing number problems.

Adding 3	3 single digit numbers		
Vocabulary Concret	ete	Pictorial	Abstract
Add Addition More Plus Make Sum Total Altogether Equals Is the same as Tens boundaries Number Line Part/Whole Bar Model Expanded Place Value column Operation Symbols Commutative Law	6 = 17 nd 6 together to make 10. Add on 7. <b>+ 7</b> Ing on from making 10, make 10 with a digits (if possible) then add on the git.	Add together three groups of objects. Draw a picture to recombine the groups to make 10.	4+7+6       =       10+7         =       17    Combine the two numbers that make 10 and then add on the remainder.



### Year 3 Addition

#### National Curriculum

Pupils should be taught to:

- Add numbers mentally including
- A 3 digit number and ones
- A 3 digit number and tens
- A 3 digit number and hundreds
- Add numbers up to 3 digit using formal written methods- column addition
- Estimate the answer to a calculation and use inverse operation to check answers
- Solve problems including missing number problems using number facts, place value and more complex addition









Dienes and Base Ten can also be used show making 10, 100, 1000.





Children to make the next 10 or 100 depending on context.

	Н	Т	0	
	2	4	3	
+	1	7	2	
	4	1	5	
	1			

## Year 4 Addition

National Curriculum

Pupils should be taught to

- Add with up to 4 digits using the formal written methods of column addition and subtraction where appropriate.
- Estimate and use inverse operations to check answers to a calculation
- Solve addition two step-word problems in contexts, deciding which operations and methods to use and why.



# Year 5 Addition

National Curriculum

- Add whole numbers with more than 4 digits, inlcuding using column addtion where appropriate.
- Add numbers mentally with increasingly large numbers
- Use rounding to ceck ansers to calculations and determine, in the context of a problem, levels of accuracy
- Solve addition multi-step problems in context, deciding which operations and methods to use and why.



# Year 6 Addition

National Curriculum

Pupil should be taught to:

• Solve addition multi-step problems in contexts, deciding which operations and methods to use and why.

Pupils should build on Year 5 strategy for addition when adding more than two numbers including numbers to three decimal places.

