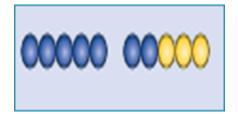
EYFS

Understanding the operation and related vocabulary

- understand addition as combining two quantities
- record using marks that they can interpret and explain
- begin to use the vocabulary involved in adding: add, altogether, total, , ..more than ..

Recalling number facts

- subitise numbers to 5.
- recall number bonds to 5 and some number bonds to 10.









- Count and order number to 20
- Know one more or less than a given number to 20
- Verbally count beyond 20
- Have a deeper understanding of numbers to 10.

Mental methods

- Add and subtract two single digit numbers count on or back or use quantities and objects to find the answer.
- Solve problems including doubling.





Year 1	Year 2	
Understanding the operation and related vocabulary School		
 Understand addition as combining two or more quantities; increasing one quantity Read write and interpret mathematical statements involving + and = signs Solve missing number problems Understand the vocabulary related to addition: Plus, the sum of Recalling number and use addition facts to 10 fluently Know number pairs with a total of 20 	 Understand addition as combining two or more quantities; increasing one quantity Show that addition can be done in any order (commutative law) Recognise the inverse between addition and subtraction Solve missing number problems Understand the vocabulary related to addition Imber facts Recall and use addition facts to 20 fluently and derive and use related facts up to 100 Know compliments to the next multiple of 10 52+ 3 - 60 	
	• Know compliments to the next multiple of 10 52+? = 60	
	Know pairs of multiples of 10 with a total of 100	
Mental methods and mental methods with jottings		
Add one digit and two digit numbers to 20 including zero Represent and use number bonds within 20 Ten Fisher Add one digit and two digit numbers to 20 including zero Represent and use number bonds within 20 Ten Fisher Add one digit and two digit numbers to 20 including zero Represent and use number bonds within 20 Ten Fisher Add one digit and two digit numbers to 20 including zero Represent and use number bonds within 20 Ten Fisher Add one digit and two digit numbers to 20 including zero Represent and use number bonds within 20 Ten Fisher Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit and two digit numbers to 20 including zero Add one digit numbers to 20 including zero Add on	• Add numbers using concrete objects, pictoral representations and mentally including: a 2 digit number and ones; a 2 digit number and tens; two 2 digit numbers; add 3 1 digit numbers 37+52 = 89	
Estimating of	and checking Check calculations by adding in a different order	

Year 3	Year 4	
Understanding the operation and related vocabulary		
 Understand the principles of the commutative and associative law Understand the inverse between addition and subtraction Solve missing number problems Understand read and spell vocabulary related to addition correctly: increase 		
Recalling nu	imber facts	
 Continue to recall and use addition facts to 20 fluently and derive and use related facts beyond 100 e.g. 80+50 Know pairs of 2 digit numbers with a total of 100 	 Know compliments to the next 100 568 + ? = 600 	
Mental methods and mental methods with jottings		
HTU + U HTU + tens HTU + hundreds	Continue to practise mental methods with increasingly large numbers	
Formal written layout		
Add numbers with up to 3 digits using formal written methods of columnar addition 7 8 9 + 6 4 2 1 4 3 1 1 1 Answer: 1431	 Add numbers with up to 4 digits using formal written methods of columnar addition Add decimals to 2 decimal places (money or measures) Compact column addition 7 8 9 + 6 4 2 1 4 3 1 1 1 Answer: 1431 	
Estimating and checking		
 Estimate the answer to calculation Use inverse operations to check answers Use equivalent calculations to check answers 	 Estimate the answer to calculation Use inverse operations to check answers Use equivalent calculations to check answers 	

Year 5	Year 6
Understanding the operation and related vocabulary	
 Continue to solve number problems Begin to use brackets Read spell and pronounce mathematical vocabulary related to addition correctly 	 Use knowledge of the order of operations Continue to solve number problems Explore the order of operations using brackets Read spell and pronounce mathematical vocabulary related to addition correctly
Recalling number facts	
 Continue to use knowledge of addition facts and place value to derive related facts with numbers to one decimal place, e.g. 1.2 + 0.7 Know compliments to 1, e.g. 0.3 + 0.7 = 1 / 0.83 + 0.17 Mental methods and mental methods 	 Continue to use knowledge of addition facts and place value to derive related facts with numbers to two decimal places Know complements to the next whole number, e.g. 7.632 + ? = 8
 Add numbers mental with increasingly large numbers Add tenths and one digit whole numbers and tenths e.g. partition: add or subtract a whole number and adjust, e.g. 4.3 + 2.9 = 4.3 + 3 - 0.1, 6.5 - 3.8 = 6.5 - 4 + 0.2 	 Perform mental calculations including with mixed operations, large numbers and decimals Add positive and negative integers (temperature) e.g. Find up here logo - 2 - 2 - 1 0 1 2 3 4 5 6 7 8 9 10 Move 3 to the left
Formal written layout	
 Add whole numbers with more than 4 digits Add decimals, including a mix of whole numbers and decimals; and decimals with different numbers of decimal places + 23.59 7.55 31.14 11.14 	 Practise addition for larger numbers Continue to practise addition calculations with decimals (up to 3 decimal places) 4.2 → 4.200 0.34 → 0.340 5.871 → 5.871 + 18 → 18.000 28.411
Estimating and checking	
Use rounding to check answers and determine levels of accuracy Continue to use appropriate strategies to check answers	Use estimation to check answers and determine levels of accuracy Continue to use appropriate strategies to check answers