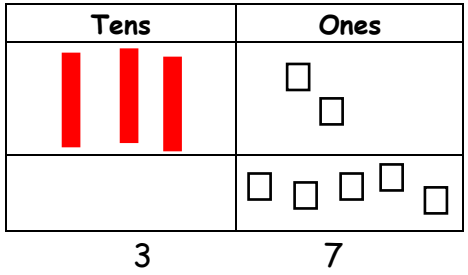
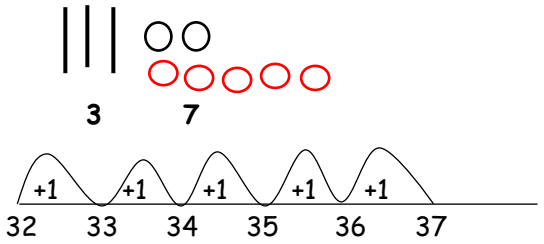
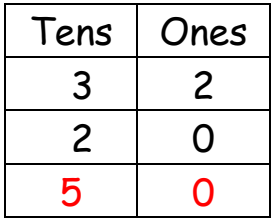
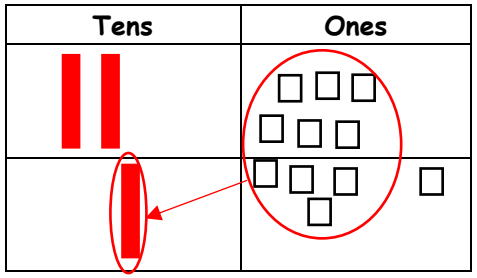
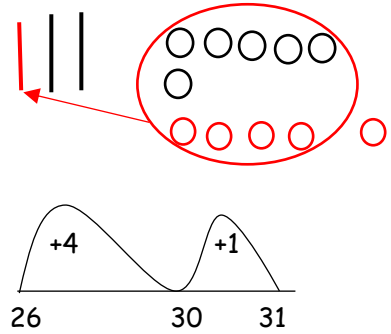
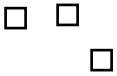
YEAR 2	Addition	
Vocabulary: Addition, add, plus, altogether, count on, equals, in total, in all, same as, whole, part, number bonds, number sentence, calculation, number, numeral, digit (one-digit, two-digit), odd, even, pattern, tens, ones, partition, commutativity, jottings. (see previous year groups)		
Concrete	**Pictorial**	**Abstract**
Children need to be secure in number bonds to 10 and 20. See Year 1 addition policy.		
Adding 2 digit numbers + multiples of 1 and 10 **No exchanging (diennes)** 32 + 5 = 37 or 5 + 32 = 37  Leading onto a 2-digit number add tens (34 + 40)	**Adding 2 digit numbers + multiples of 1 and 10** **No exchanging** 32 + 5 = 37 or 5 + 32 = 37  Then adding tens only.	**Adding 2 digit numbers + multiples of 1 and 10** **No exchanging** Adding ones Adding tens   This written method is only shown alongside the pictorial.
Exchanging (diennes) 26 + 5 = 31 or 5 + 26 = 31  	**Exchanging** 26 + 5 = 31 or 5 + 26 = 31  	**No written method for exchanging.**

Adding two 2 digit numbers

No exchanging

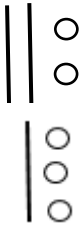
22 + 13 = 35

Tens	Ones
	
	

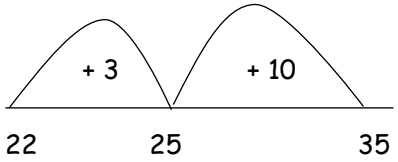
Adding two 2 digit numbers

No exchanging

22 + 13 = 35



3 5



Written

Adding two 2 digit numbers

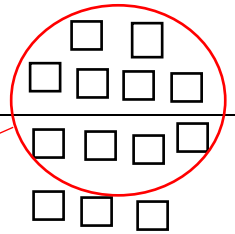
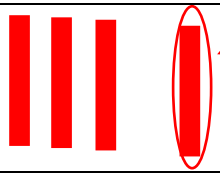
No exchanging

Tens	Ones
2	2
1	3
	5
3	0
3	**5**

This written method is only shown alongside the pictorial representation.

Exchanging

26 + 37 = 63

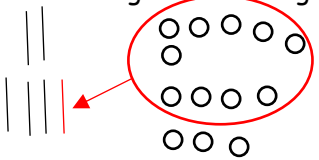
Tens	Ones
	
	

6 3

Exchanging

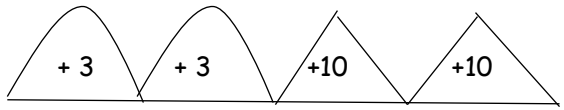
26 + 37 = 63

Reinforce starting with the larger number.



6 **3**

Using a number line



37 40 43 53 63

(children may count in ones from 37 to 43 to start with).

No written method for exchanging.

Mental Methods

Number facts:

Recap number facts to 10

Known complements to the next multiple of 10

52 + ___ = 60

Know pairs of multiples of 10 totalling 100

60 + ___ = 100

Number bonds to 10:

46 + 4 = 50 (**6 + 4 = 10**)

Counting on:

37 + 20 **(+10 then +10)**

42 + 23 **(+20 then +3)**

47 + 15 **(+10, +3 to the next 10 then +2)**

Near doubles:

If 7 + 7 = **14**

Then 7 + 8 = **14** + 1 = 15

Redistribution:

38 + 47

Redistribute to 40 + 45 = 95

Partitioning:

23 + 12

20 + 10 = **30**; 3 + 2 = **5**; **30 + 5 = 35**

Adjusting:

34 + 9 **(+10 then subtract 1)**

45 + 19 **(+20 then subtract 1)**

Using known facts and place value:

63 + 4

If **3 + 4 = 7** then **63 + 4 = 67**

40 + 50

If **4 + 5 = 9** then **40 + 50 = 90**

Inverse:

Understand the inverse:

45 + 8 = 53

8 + 45 + 53

53 – 45 = 8

53 – 8 = 45