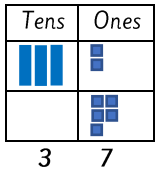
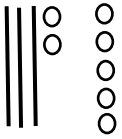
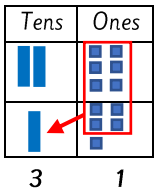
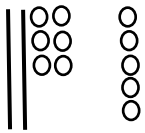
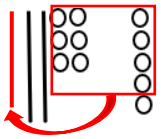
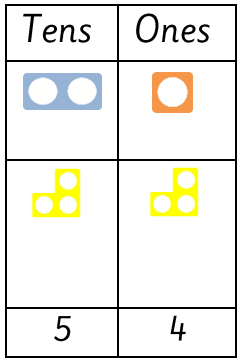
YEAR 2	Addition	
Vocabulary: *Addition, add, plus, altogether, count on, equals, in total, in all, same as, whole, part, number bonds, number sentence, calculation, number, numeral, digit (one-digit, two-digit), odd, even, pattern, tens, ones, partition, commutativity, jottings, inverse. (see previous 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 *Dienes* ***Linear*** *(preferred method)* 32 + 5 = 37 ***Column***  *Leading onto a 2-digit number add tens (34 + 40)* *And two 2-digit numbers (34 + 42)*	***Adding 2-digit numbers + multiples of 1 and 10*** *Jottings* 32 + 5 = 37  *Same method for adding a 2-digit number and tens and two 2-digit numbers together.*	***Adding 2-digit numbers + multiples of 1 and 10*** ***Linear*** *(preferred method)* 32 + 5 = 37 ***Column*** ***These written methods only to be shown alongside pictorial rerepresentation.***
Crossing the tens boundry ***Exchanging*** *Dienes* ***Linear*** *(preferred method)* 26 + 5 = 31 ***Column***  *Leading onto adding two 2-digit numbers (34 + 47) crossing the tens boundry.*	***Crossing the tens boundry*** ***Exchanging*** *Jottings* ***Count on*** 26 + 5 = 31  ***Exchange*** 26 + 5 = 31  *Same method for adding a 2-digit number and tens and two 2-digit numbers together.*	

Summer Term **Column method using Numicon** (to aid transition to the Junior School).  	**No pictorial representation. Stop at concrete.**	

Mental Methods

Number facts:
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 and use the inverse to solve missing number problems/calculations:
45 + 8 = 53
8 + 45 + 53
53 – 45 = 8
53 – 8 = 45