

YEAR 1

Addition

Vocabulary: Addition, add, forwards, put together, more than, total, altogether, equals, same as, greater than, most, pattern, odd, even, digit, counting on, part, whole.

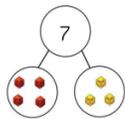
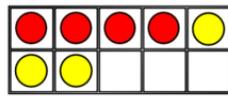
Concrete

Add numbers within 10 including number bonds to 10

$4 + 3 = 7$
 $3 + 4 = 7$



$7 = 4 + 3$



$7 = 4 + 3$
 $7 = 3 + 4$

Plus using place value mats and diennes.

Pictorial

Add numbers within 10 including number bonds to 10

Number line (counting on):

$5 + 3 = 8$

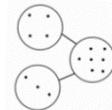


Diennes jottings:

$5 + 3 = 8$



Part part whole model:



$7 = 4 + 3$
 $7 = 3 + 4$

Abstract

Mental facts to 10

Number facts

Recall and use addition facts to 10 fluently
the total of 6 and 3 6 plus 2 4 more than 5

Near doubles:

Instantly recall doubles to 10 and use this to calculate near doubles.

$4 + 5 = 4 + 4 + 1$ OR

$4 + 5 = 5 + 5 - 1$

One and two more:

Of numbers up to 10.

$8 + 1 = 9$ (consecutive numbers)

$5 + 2 = 7$ (Consecutive odd or even numbers)

$4 + 2 = 6$

Number bonds to 10:

$8 + 2 = 10$

Numicon

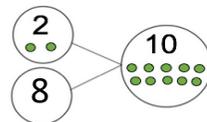


Rekenrek

10 frame



Number bonds to 10:



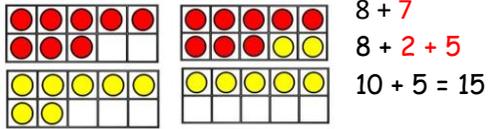
Instant recall of facts

Number bonds to 10:

- $0 + 10 = 10$
- $1 + 9 = 10$
- $2 + 8 = 10$
- $3 + 7 = 10$
- $4 + 6 = 10$
- $5 + 5 = 10$
- $6 + 4 = 10$
- $7 + 3 = 10$
- $8 + 2 = 10$
- $9 + 1 = 10$
- $10 + 0 = 10$

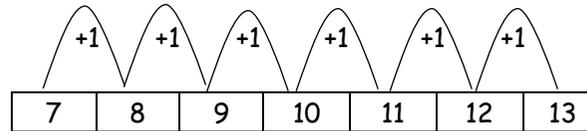
Add numbers within 20 including number bonds to 20:

Partitioning:



Add numbers within 20 including number bonds to 20:

Partitioning: 7 + 6



Moving on to partitioning 6 into 3 and 3
(7 + 3 = 10 then 10 + 3 = 13)

Mental facts to 20

Partitioning (bridging through 10):

5 + 7
5 + 5 + 2 (partition 7 into 5 and 2) OR
7 + 3 + 2 (partition 5 into 3 and 2)

Using known facts and place value

15 + 4
5 + 4 = 9 so 15 + 4 = 19

Number facts

Know number pairs with a total of 20
16 + □ = 20 20 = 3 + □

One and two more:

Of numbers up to 20.
18 + 1 = 19 (consecutive numbers)
15 + 2 = 17 (Consecutive odd or even numbers)
14 + 2 = 16

Instant recall of facts:

Number bonds to 20

Redistribution:

12 + 5 redistributes to 10 + 7.

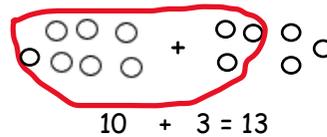
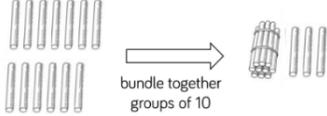
Commutativity and Inverse

16 + 4 = 20 20 - 16 = 4
4 + 16 = 20 20 - 4 = 16

Missing Number/Inverse

□ - 5 = 12 12 - □ = 4

7 + 6 = 13



Counting on:



Number bonds to 20:

16 + 4 = 20

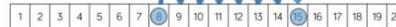
4 + 16 = 20

Cubes



Counting on:

8 + 7 = 15



Number bonds to 20:

