

YEAR 1

Subtraction

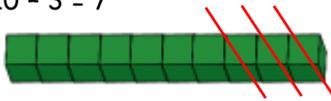
Vocabulary: Subtraction; subtract; take away; minus; distance between; difference between; more than; fewer than; minus; less than; most; least.

Concrete

Subtract numbers within 10

Counting back:

$10 - 3 = 7$



Using cubes, objects and tens frames.

Rekenrek:



Numicon:



Counting on: (finding the difference)

$10 - 6 =$



Rekenrek:

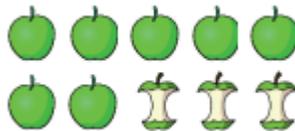


Pictorial

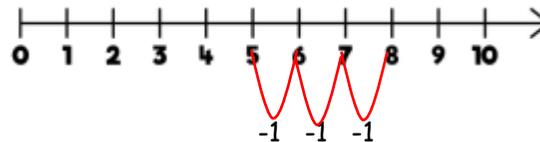
Subtract numbers within 10

Counting back:

$10 - 3 = 7$

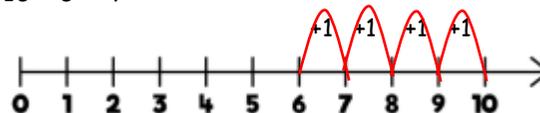


$8 - 3 = 5$



Counting on: (finding the difference)

$10 - 6 = 4$



Diennes:

$8 - 3 = 5$



Abstract

Mental facts to 10

Counting back:

Counting back in ones:

$8 - 3 = 5$

8, 7, 6, 5

One and two less:

Of numbers up to 10.

$8 - 1 = 7$ (consecutive numbers)

$6 - 2 = 4$ (Consecutive odd or even numbers)

Counting on:

$9 - 7 = 2$

Hold 7 in your head and count on until 9. The difference is 2.

Number facts/fact families

To 10 and 20:

$10 - 2 = 8$ $20 - 2 = 18$

$10 - 8 = 2$ $20 - 18 = 2$

$2 + 8 = 10$ $2 + 18 = 20$

$8 + 2 = 10$ $18 + 2 = 20$

Subtract numbers within 20

As above but include:

Numicon:

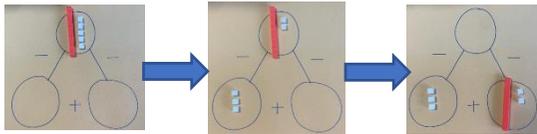
$20 - 7 = 13$



Rekenrek:

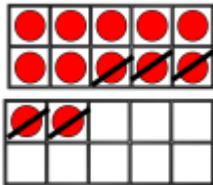


Dienes:



Tens frames showing partitioning:

$12 - 5 = 7$

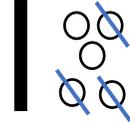


Subtract numbers within 20

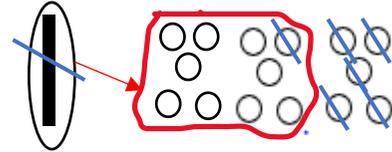
As above plus:

Dienes jottings:

$15 - 3 = 12$



$15 - 6 = 9$



One ten = 10 ones

Mental facts to 20

Using known facts and place value

If $6 - 4 = 2$

Then $16 - 4 = 12$

Counting back:

Counting back in ones

$16 - 5 = 11$

16, 15, 14, 13, 12, 11

Counting on:

(see number line above)

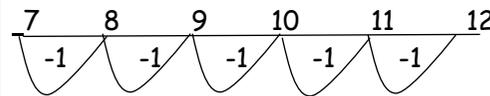
$15 - 11 = 4$

Hold 11 in your head and count on until 15.

The difference is 4.

Partitioning:

$12 - 5 = 7$



Extending to partitioning 5 into 2 and 3 then -2 and -3.

Partitioning: (Bridging through 10)

$11 - 4$

$11 - 1 = 10$

$10 - 3 = 7$

Missing Number/Inverse:

$8 + \square = 19$

$\square + 12 = 20$

No formal written layout. Children record their maths using pictorial representations, number lines and mathematical statements.

