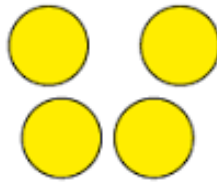# Subtraction

Key Objective

Show an interest in number problems.

Subtract practically without number sentence
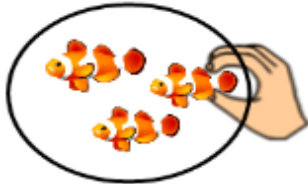
1 Counting one set to find a total

2 Subtraction using objects

3 Subtraction using pictures

Key Vocabulary

less, subtract, how many more, how many fewer, less than, most, least, count back, how many left?
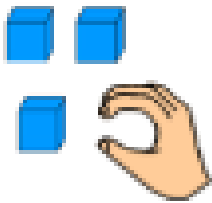
Nursery

Subtraction

Key Objective

Using quantities and objects, subtract two single-digit numbers and count back to find the answer.

Subtract practically with number sentence

1 Using objects

$3 - 1 = 2$

2 Drawing using pictures

$5 - 3 = 2$

3 Drawing using symbols

$6 - 4 = 2$

Key Vocabulary

take away, less, subtract, how many more, how many fewer, less than, most, least, count back, how many left, how much less is...?
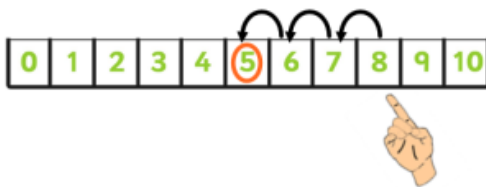
Reception

Subtraction

Key Objective

To subtract one-digit and two-digit numbers to 20.

Counting back using a number track and number line

1 Number track: 8 - 3 = 5
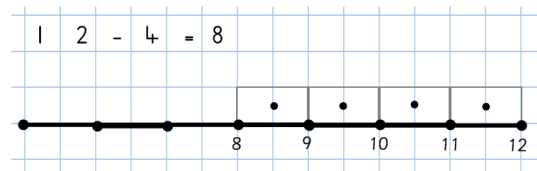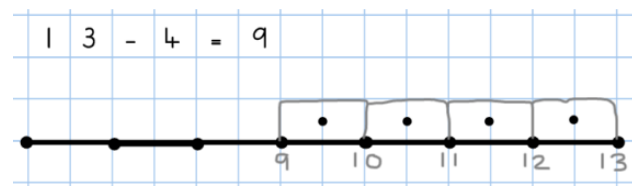
2 Guided number line: 12 - 4 = 8
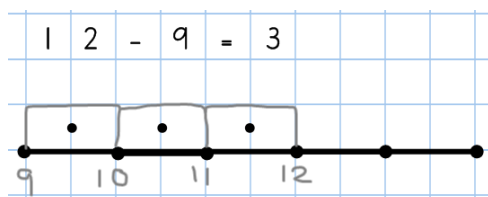
3 Draw own number line:

Count back if numbers are far apart:

$$13 - 4 = 9$$

Count on if numbers are close together:

$$12 - 9 = 3$$

Key Vocabulary

equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer, less than, most, least, count back, how many left, how much less is…?

Year 1

Subtraction

Key Objective

Subtract numbers using concrete objects, pictorial representations, and mentally, including:
a 2-digit number and ones, and two 2-digit numbers

Subtract using concrete and pictorial resources

1 Subtracting ten: 32 – 10 = 22

Take a ten away

Cross ten out

2 Crossing tens boundary: 32 – 14 = 18

Exchange a ten
for 10 ones
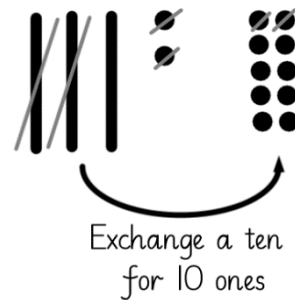
3 Mental subtraction: 32 – 11 = 21

32 – 11 = 21

32 – 10 = 22 (subtract tens in head)

22 – 1 (count back in ones)

4 Mental subtraction: crossing tens boundary:
32 – 14 = 18

32 – 14 = 18

32 – 10 = 22 (subtract tens in head)

22 – 4 (count back in ones) 21, 20, 19, 18

Key Vocabulary

equal to, take, take away, less, minus, subtract, leaves, distance between,
how many more, how many fewer, less than, most, least, count back, how many left,
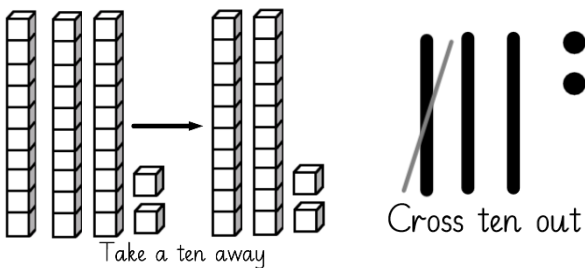how much less is…? Count on, strategy, partition, tens, ones.

Year 2

Subtraction

ELSTON HALL Primary School

Key Objective

Subtract numbers with up to three digits, using the formal written method of columnar subtraction.

Expanded column subtraction

1 TO – TO (no exchanging)

```
   3 0 + 4
 - 2 0 + 3
 ─────────
   1 0 + 1
```

2 TO – TO (exchanging)

```
     5 0
     6̶ 0 + ¹5
 -   3 0 + 7
 ───────────
     2 0 + 8
```

3 HTO – HTO (exchanging)

```
   2 0 0      1 5 0
   3̶ 0 0 + 6̶ 0 + ¹5
 - 1 0 0 + 8 0 + 7
 ──────────────────
   1 0 0 + 7 0 + 8
```

Compact column subtraction

4 No exchanging

```
   3 6 5
 - 1 2 3
 ───────
   2 4 2
```

5 Exchanging

```
     5
   3 6̶ ¹5
 - 2 4 7
 ───────
   1 1 5
```

Key Vocabulary

equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer, less than, most, least, count back, how many left, how much less is…? Count on, strategy, partition, tens, ones, exchange, decrease, hundreds, value, digit.

Year 3

Subtraction

Key Objective

Subtract numbers with up to 4 digits using the formal written method of columnar subtraction.

Compact column subtraction

1 THHTO - THHTO

2 Subtracting through zero

3 Mixed amount of digits

Add place holder

Key Vocabulary

equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer, less than, most, least, count back, how many left, how much less is...? Count on, strategy, partition, tens, ones, exchange, decrease, hundreds, value, digit, inverse.

Year 4

Subtraction

ELSTON HALL Primary School

Key Objective

Subtract whole numbers with more than 4 digits, including using the formal written method of columnar subtraction.

Compact column subtraction

1 5-digits +

$$\begin{array}{r} {}^{4}\cancel{5}\ {}^{1}2\ \cancel{4}\ {}^{1}5\ 6 \\ -\ 2\ 7\ 2\ 8\ 4 \\ \hline 2\ 5\ 1\ 7\ 2 \end{array}$$

2 Mixed amount of digits

Add place holder →

$$\begin{array}{r} {}^{4}\cancel{5}\ {}^{1}2\ \cancel{4}\ {}^{1}5\ 6 \\ -\ 0\ 7\ 2\ 8\ 4 \\ \hline 4\ 5\ 1\ 7\ 2 \end{array}$$

3 Subtracting decimals

$$\begin{array}{r} 8\ {}^{4}\cancel{5}\cdot{}^{1}4\ 8 \\ -\ 3\ 2\cdot7\ 5 \\ \hline 5\ 2\cdot7\ 3 \end{array}$$

Key Vocabulary

equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer, less than, most, least, count back, how many left, how much less is…? Count on, strategy, partition, tens, ones, exchange, decrease, hundreds, value, digit, inverse, tenths, hundredths, decimal place, decimal.

Year 5

Subtraction

Key Objective

Subtract whole numbers with more than 4 digits, including using the formal written method of columnar subtraction.

Compact column subtraction

1 Increasingly large numbers

Add place holder →

$$
\begin{array}{ccccccc}
 & 5 & 2 & 2 & 4 & 5 & 6 \\
- & 0 & 3 & 7 & 2 & 8 & 4 \\
\hline
 & 4 & 8 & 5 & 1 & 7 & 2 \\
\end{array}
$$

2 Subtracting decimals with mixed amount of digits

Add place holder →

$$
\begin{array}{cccccc}
 & 1 & 2 & 5.4 & 8 & 0 \\
- & & 7 & 2.3 & 5 & 7 \\
\hline
 & & 5 & 3.1 & 2 & 3 \\
\end{array}
$$

Key Vocabulary

equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer, less than, most, least, count back, how many left, how much less is…? Count on, strategy, partition, tens, ones, exchange, decrease, hundreds, value, digit, inverse, tenths, hundredths, thousandths, decimal place, decimal.

Year 6