## Overview of Progression in Subtraction

FOUNDATION


YEAR I


YEAR 2
Calculation Strategies
Subtraction as taking away


Subtraction as finding the difference
Find the difference by comparing 2 groups and counting on



The difference between 18 and 26 is 8 .

$$
26-18=8
$$

## Overview of Progression in Subtraction

## YEAR 3



## YEAR 4

## Calculation Strategies

Finding the difference (Counting up method)
Decomposition (Taking away method)
I have taken the 86
away so that I can
count on to find


$$
\begin{aligned}
754 & \\
-86 & \\
\hline 4 & \text { To make } 90 \\
10 & \text { To make } 100 \\
600 & \text { To make } 700 \\
50 & \text { To make } 750 \\
4 & \text { To make } 754 \\
\hline \angle \circ &
\end{aligned}
$$



YEAR 5

## Calculation Strategies

Finding the difference (Counting up method)
Decomposition (Taking away method)
Exchange Hundreds to Tens



Exchange Tens to Units


## Overview of Progression in Subtraction

YEAR 6


## YEAR 7

## Calculation Strategies

Expanded decomposition:
4632-75=?

$4632-75=4557$
Compact decomposition:


Expanded decomposition with decimals:
$623.5-41.6=$ ?
${ }_{600}^{500}{ }^{1220} \mathrm{Cl}^{2} \quad 1.5$

|  | 40 | 1 | 0.6 |
| :---: | :---: | :---: | :---: |
| 500 | 80 | 1 | 0.9 |

$623.5-41.6=581.9$
Subtracting fractions:
$\frac{4}{7}-\frac{2}{7}=$ ?
Subtraction with negative numbers:
$3-10=$ ?

## YEAR 8

## Calculation Strategies

Compact decomposition:
$11.6-9.58=$ ?

| $9^{\prime} 1.50$ |
| ---: |
| -9.58 |
| 2.02 |
| $11.6-9.58=2.02$ |

Subtracting fractions:
$\frac{3}{4}-\frac{1}{8}=$ ?
$\frac{6}{8}-\frac{1}{8}=\frac{5}{8}$

Subtraction with negative numbers:

$$
65-81=?
$$

## YEAR 9

Calculation Strategies
Compact decomposition:

| 0.2240 |
| ---: |
| -0.143 |
| 0.087 |

$0.23-0.143=0.087$

Subtraction with time:
A train leaves at 14:20 and arrives at $15: 44$.
How long does the journey take?


Subtraction with negative numbers:
Continue pattern to solve: 5--2=?

## Use of calculator:

$-6.2+3.4=$ ?

Algebraic Problems:
If $a=22, b=16$,
$a-b=$ ?
If $x+y=2, x=6$
$y=$ ?

$$
5-4=1
$$

$$
5-3=2
$$

$$
5-2=3
$$

$$
5-1=4
$$

$$
5-0=5
$$

$$
5--1=\text { ? }
$$

$$
5--2=\text { ? }
$$

Find the mean temperature of: Mon Tues Wed Thurs Fri $\begin{array}{cllll}\text { Mon } & \text { Tues } & \text { Ned } & \text { Thurs } & \text { Fri } \\ -3 & -1 & -1 & 1 & 2\end{array}$

Subtracting fractions:

