

Subtraction Written Calculation Progression Y1 to Y6

Y1

- Number bonds and related subtraction facts within 20
- Subtract 1 and 2 digit numbers within 20, including zero

Partition single digit numbers

Context based Use what you know - relate to addition

Concrete → Pictorial → Abstract Place Value

Representations emphasise part - part - whole relationship

Teacher to show use of the bar model.

Use stem sentences.

12 - 7 = ?

12 - ? = 7

7 + ? = 12

? + 7 = 12

Y2

- 2 digit - 1 digit
- 2 digit - tens
- 2 digit - 2 digit
- Subtraction is not commutative

Context based Bridging 10 → Shuffling

Concrete → Pictorial → Abstract Place Value

Subtract 10s from any 2 digit number $62 - ? = 37$

Don't partition the first number $62 - 37 = ?$

Use the bar model to develop number sense and structure. Link to addition.

$62 - 37 = ?$

$62 - 7 = 55$

$55 - 30 = 25$

Y3

- Numbers up to 3 digits
- Choose appropriate method
- Written method - column subtraction - no re-grouping

Context based

Show the bar model to develop number sense

2 digit - 2 digit (don't partition the first number)

Bar model → expanded column (Short time only) → compact column

COUNT ON if numbers are close together eg. 203 - 199	COUNT BACK If subtracting a single digit or a 'tens' number eg. 342 - 5 or 257 - 40	ROUND AND ADJUST if the number being subtracted is near a 'tens' number eg. 64 - 19 = 64 - 20 + 1
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COLUMN SUBTRACTION
No re-grouping

387	
-164	
$\hline 3 (7 - 4)$	387
$20 (80 - 60)$	-164
$200 (300 - 100)$	$\hline 223$
$\hline 223$	

Use place value counters or Diennes

Y4

- Numbers up to 4 digits
- Column subtraction where appropriate

Context based

Show the bar model to develop number sense

Bar model → compact column (with re-grouping if necessary)

COUNT ON if numbers are close together eg. 2003 - 1998	COUNT BACK If subtracting a single digit or a 'tens' number eg. 342 - 5 or 957 - 80	ROUND AND ADJUST if the number being subtracted is near a 'tens' number eg. 134 - 19 = 134 - 20 + 1
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COLUMN SUBTRACTION
With re-grouping if needed

Use small numbers initially to understand the re-grouping method

$152 - 87 = ?$

First we need to start with the ones. We have 2 ones and need to take away 7. 2 - 7 = - We don't have enough ones to take away 7 so we need to re-group a ten for 10 ones. So we now have got 4 tens but 12 ones. So we can now say 12 - 7 = 5

Use place value counters to show exchanging

Y5

- Numbers with more than 4 digits
- Choose appropriate method for numbers involved
- Written method - column subtraction (with re-grouping if necessary)

Context based

Show the bar model to develop number sense and to choose efficient method of calculation

Use decimal numbers - vary the number of place values

$27.3 - 6.4$

Missing box calculations

$27.3 - 6.4 = 20.9$

Y6

- Choose appropriate subtraction method for the numbers involved
- Written method - column subtraction (decomposition)

Context based

Use decimal numbers - vary the number of place values

$23040 - 1689$

$54.3 - 7.52$

Missing box calculations