

Progression in written calculation strategies for subtraction

(Examples indicate **end of year** expectations)

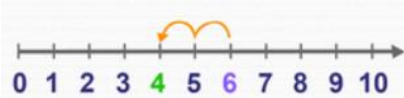
Reception

LION

Statutory Guidance

Children count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number. Using quantities and objects, they add and subtract two single-digit numbers and count on or back to find the answer.

e.g. 6 subtract 2



Year 1

LEOPARD

Statutory Guidance

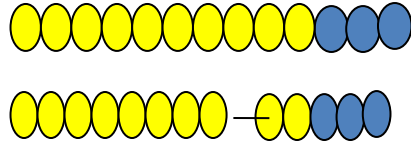
Subtract one-digit and two-digit numbers to 20, including zero.

Solve one-step problems that involve subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$.

Possible representations

Using concrete objects

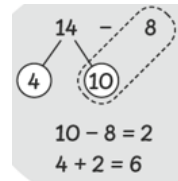
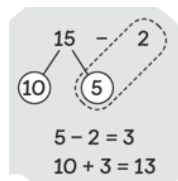
e.g. $13 - 5 =$



Using pictorial representations

$13 - 5 =$

Subtract by subtracting ones or by subtracting from 10



Year 2

PANTHER

Statutory Guidance

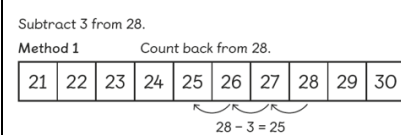
Subtract numbers using concrete objects, pictorial representations, and mentally, including:

- a two-digit number and ones
- a two-digit number and tens
- two two-digit numbers

Possible representations

e.g. $28 - 3 =$

Subtracting a 2-digit number



from a 2-digit number using column subtraction

e.g. $36 - 20 =$

Subtract the tens.
3 tens - 2 tens = 1 ten



$36 - 20 = 16$

Subtracting using column method with renaming

e.g. $32 - 16 =$



$32 - 16 = 16$

Year 3

TIGER

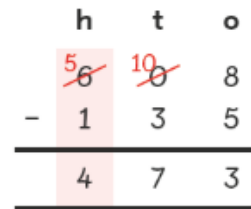
Statutory Guidance

Subtract numbers with up to three digits, using formal written methods of column subtraction

Key strategy

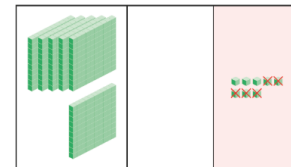
Column subtraction with and without exchanging

e.g. $608 - 135$ (with exchanging)

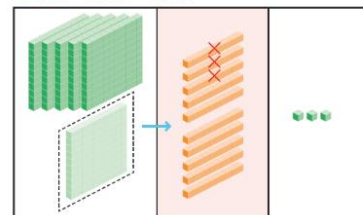


Possible representations

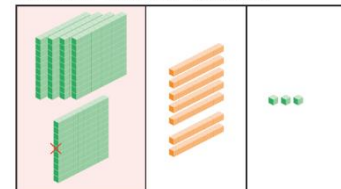
Step 1 Subtract the ones.
8 ones - 5 ones = 3 ones



Regroup 1 hundred into 10 tens.
Subtract the tens.
10 tens - 3 tens = 7 tens



Subtract the hundreds.
5 hundreds - 1 hundred = 4 hundreds



Year 4

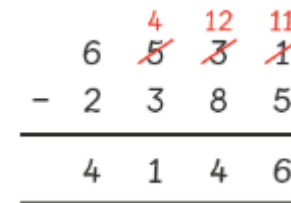
JAGUAR

Statutory Guidance

Subtract numbers with up to 4 digits using the formal written methods of column subtraction where appropriate

Key strategy

e.g. $6531 - 2385$



Year 5

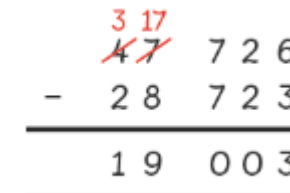
LYNX

Statutory Guidance

Subtract whole numbers with more than 4 digits, including using formal written methods (column subtraction)

Key strategies

e.g. $47,726 - 28,723$



Year 6

PUMA

Statutory Guidance

Solve subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

Measurement

Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.

Children will be expected to be secure when subtracting fractions and decimals.