Calculation Policy: Subtraction

Key language: take away, less than, the difference, subtract, minus, fewer,

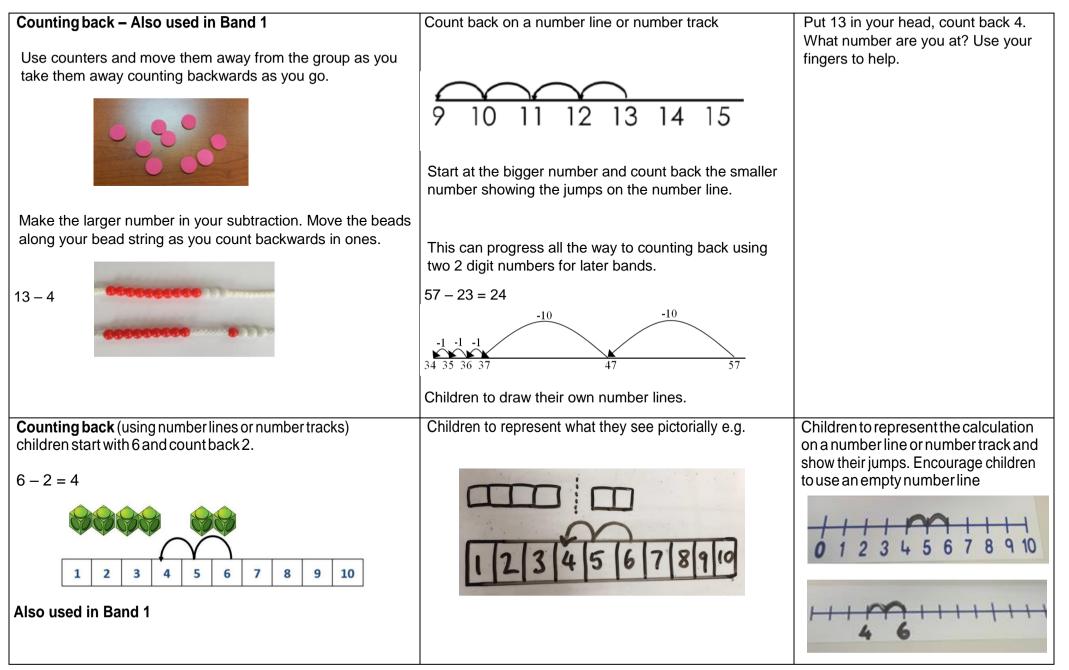
8 - 3 = 5

decrease, reduction (taking away), minuend, subtrahend Minuend Subtrahend Difference

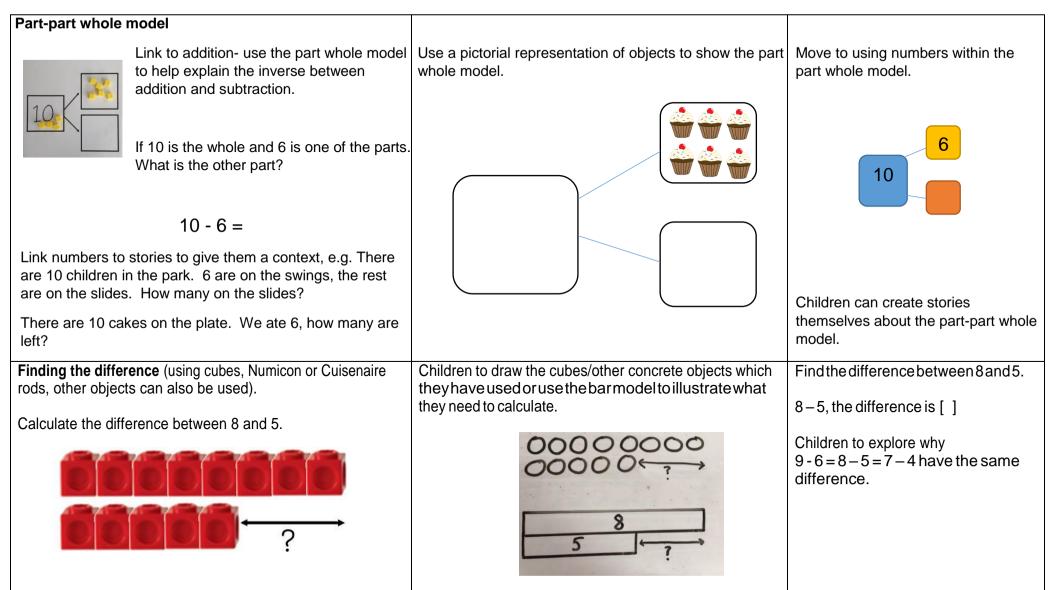
<u>EYFS</u>

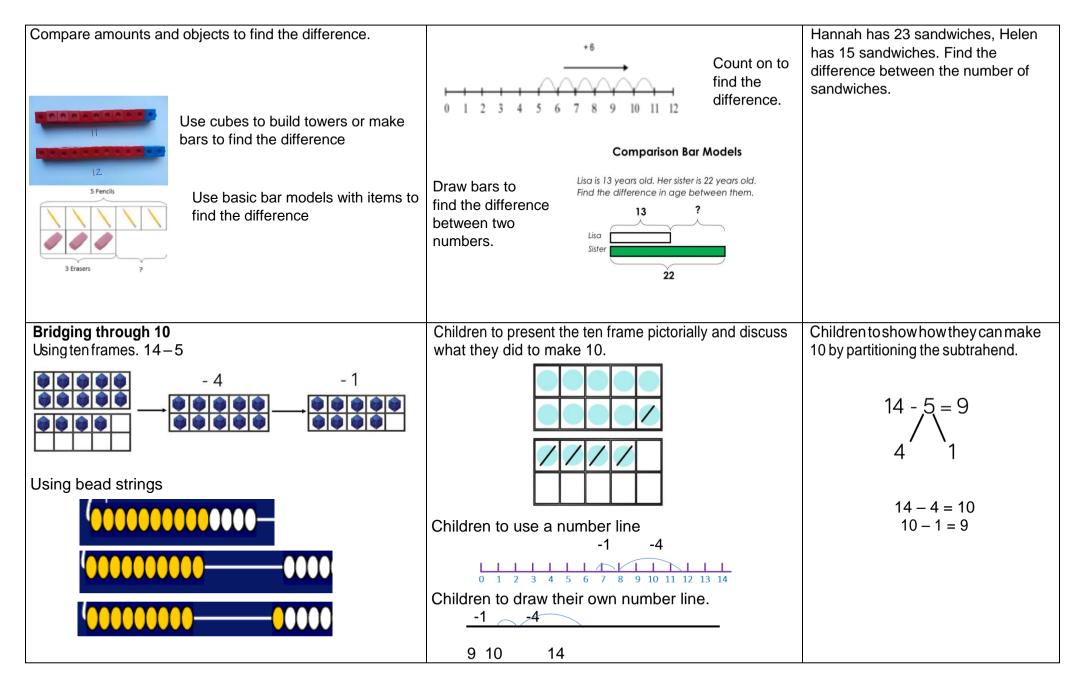
• Using quantities and objects, they subtract two single-digit numbers and count back to find the answer.

Concrete	Pictorial	Abstract
Physically taking away and removing objects from a whole (ten frames, Numicon, cubes and other items such as beanbags could be used).	Children to draw the concrete resources they are using and cross out the correct amount. The bar model can also be used.	4-3= = 4 - 3
Focus on the language of 1 less $ \begin{array}{c} $	00000	4 ?
	XXX	? 3



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





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

Concrete	Pictorial	Abstract
Bridging through 10 Usingten frames. 14–5	Children to present the ten frame pictorially and discuss what they did to make 10.	Children to show how they can make 10 by partitioning the subtrahend.
$\begin{array}{c} \bullet \bullet$		14 - 5 = 9 4 1
Using bead strings	Children to use a number line -1 -4	14 - 4 = 10 10 - 1 = 9
⁽ 000000000 000 0000 0000 0000 0000 000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	

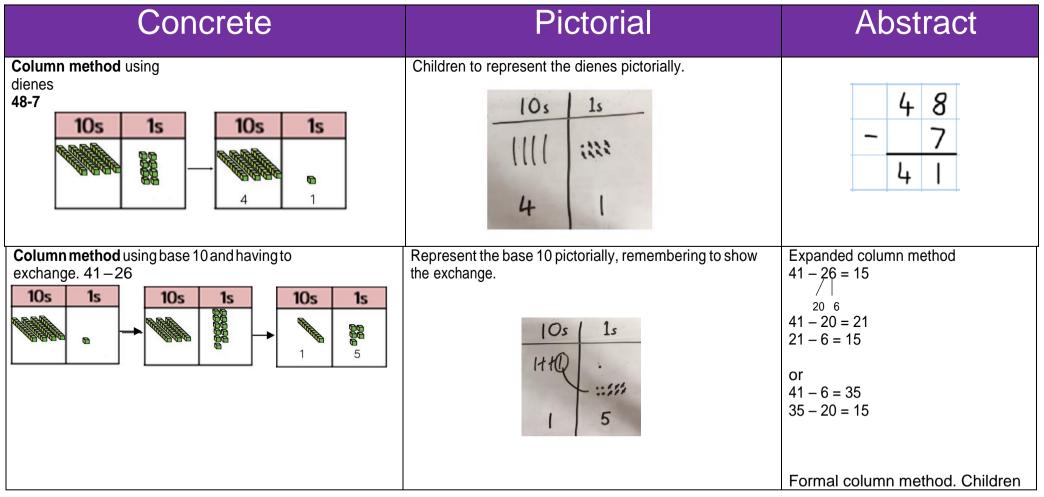
Column method using dienes 48-7 10s 1s 10s 1s 44-7 4 1	Children to represent the dienes pictorially. $ \begin{array}{c c} \hline 10s \\ \hline 1s \\ \hline 11111 \\ \hline 4 \\ 1 \end{array} $	48 - 7 $40 - 0 = 40$ $8 - 7 = 1$ $48 - 7$ $40 - 0 = 40$ $8 - 7 = 1$
48 - 33 = 15	Children to represent the dienes pictorially. 48-33=15 Tens Ones 1444 14	$48 - 33 = 15$ $40 \cdot 30 = 10$ $8 - 3 = 5$ $10 + 5 = 15$ $48 - 33 = 15$ $30 \cdot 3$ $48 - 30 = 18$ $18 - 3 = 5$

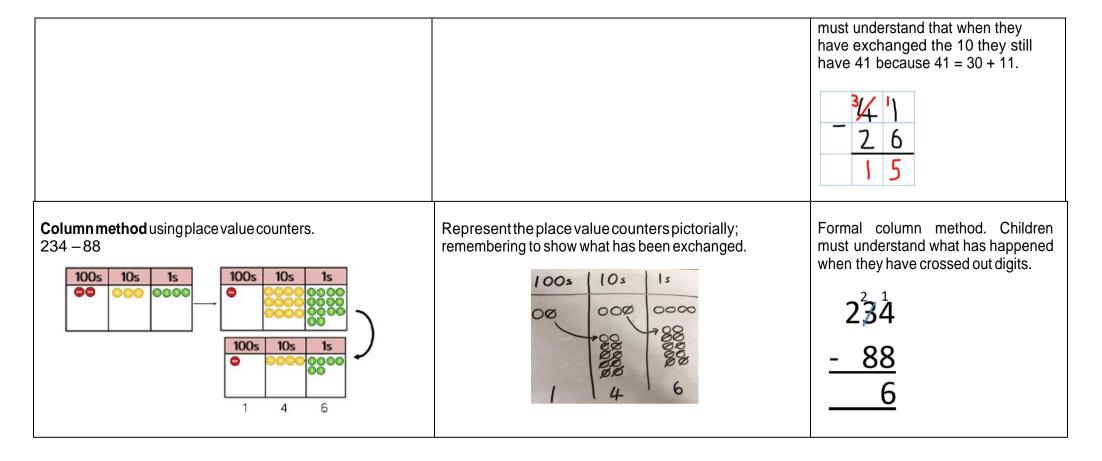
Column method using base 10 and having to exchange. 41-26 10s 1s 10s 1s 10s 1s 10s 1s 10s 1s 10s 1s 15 15 15 15 15 15 15 15 15 15 15 15 15	Represent the base 10 pictorially, remembering to show the exchange. $ \frac{10s 1s}{14tR} $	Expanded column method 41 - 26 = 15 $20 \ 6$ 41 - 20 = 21 21 - 6 = 15 or 41 - 6 = 35 35 - 20 = 15
		Formal column method. Children must understand that when they have exchanged the 10 they still have 41 because $41 = 30 + 11$.

Subtract number mentally, including:

- a three-digit number and ones
- a three-digit number and tens
- a three-digit number and hundreds

Subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction Solve problems including missing number problems, suing number facts, place value, and more complex subtraction





B<u>and 4</u>

- subtract numbers with up to 4 digits using the formal written methods of columnar subtraction where appropriate
- estimate and use inverse operations to check answers to a calculation
- solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.

Concrete	Pictorial	Abstract
See strategies taught in earlier bands		

- subtract whole numbers with more than 4 digits, including using formal written methods (columnar subtraction)
- subtract numbers mentally with increasingly large numbers
- solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

Band 6

- perform mental calculations, including with mixed operations and large numbers
- use their knowledge of the order of operations to carry out calculations involving the four operations
- solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Concrete	Pictorial	Abstract
See strategies taught in earlier bands		

Conceptual variation; different ways to ask children to solve 391 - 186			
391	Raj spent £391, Timmy spent £186. How much more did Raj spend?	= 391 – 186 391	Missing digit calculations
?	Calculate the difference between 391 and 186.	<u>-186</u>	- 6
391 186 ?		What is 186 less than 391?	0 5