Objective and Strategies	Concrete	Pictorial	Abstract
Early Years Taking away ones	Use physical objects, counters, cubes etc to show how objects can be taken away.	Cross out drawn objects to show what has been taken away.	8 – 1 = 7
When this is first introduced, the concrete representation should be based upon the diagram. Real objects should be placed on top of the images as one – to – one correspondence so that pupils can take them away, progressing to representing the group of ten with a tens rod and ones with ones cubes	6 − 2 = 4	$ \begin{array}{c} & & & & & & \\ & & & & & & \\ & & & & & $	5 – 1 = 4
Early Learning Goals 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.			

Year 1

Counting back

Subtracting 1, 2, or 3 by counting back Pupils should be encouraged to rely on number bonds knowledge as time goes on, rather than using counting back as their main strategy

Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs.

Represent and use number bonds and related subtraction facts within 20.

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

Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = 2 - 9. Make the larger number in your subtraction. Move the beads along your bead string as you count backwards in ones. 13 – 4

Use counters and move them away from the group as you take them away counting backwards as you go.



Count back on a number line or number track

13 15 12 14 9

Start at the bigger number and count back the smaller number showing the jumps on the number line.



This can progress all the way to counting back using two 2 digit numbers.

Put 13 in your head, count back 4. What number are you at? Use your fingers to help.



Part Part Whole Model	Link to addition- use the part whole model to help explain the inverse between addition and subtraction. If 10 is the whole and 6 is one of the parts. What is the other part? 10 - 6 =	Use a pictorial representation of objects to show the part part whole model.	5 10 Move to using numbers within the part whole model.
Make 10 As with addition, chd see that it is more efficient to subtract to get to ten first then subtract again from ten. Knowledge of number bonds to and from ten and twenty are vital.	14 - 9 = Make 14 on the ten frame. Take away the four first to make 10 and then takeaway one more so you have taken away 5. You are left with the answer of 9.	13 - 7 = 6 3 4 5 1 2 3 4 5 6 7 8 6 10 11 12 13 14 15 16 17 18 19 20 Start at 13. Take away 3 to reach 10. Then take away the remaining 4 so you have taken away 7 altogether. You have reached your answer.	16 – 8= How many do we take off to reach the next 10? How many do we have left to take off?
Year 3 Column method without regrouping Subtract numbers with up to three digits, using formal written methods of columnar subtraction.	Use Base 10 to make the bigger number then take the smaller number away. Show how you partition	$\begin{array}{c} \hline \\ \hline $	Start with expanded method to subtract 47-24=23 $-\frac{40}{20}+\frac{7}{4}$ $-\frac{20}{20}+\frac{3}{3}$

Add and subtract numbers mentally, including: i. a three-digit number and ones ii. a three-digit number and tens iii. a three-digit number and hundreds.

Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.

Estimate the answer to a calculation and use inverse operations to check answers.

Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. numbers to subtract. Again make the larger number first.



This will lead to a clear written column subtraction.



Year 4

Column method with regrouping

Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and 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. to place value counters. Start with one exchange before moving onto subtractions with 2 exchanges. Make the larger number with the place value

Use Base 10 to start with before moving on



Start with the ones, can I take away 8 from 4 easily? I need to exchange one of my tens for ten ones.



Now I can subtract my ones.

Now look at the tens, can I take away 8 tens easily?



I need to exchange one hundred for ten tens.



Now I can take away eight tens and complete my subtraction





42-18=24

10 1111

Step 3

10 1111 = 24

Step 1

Step 2

10 10

Draw the counters onto a place value grid and show what you have taken away by crossing the counters out as well as clearly showing the exchanges you make.

When confident, children can find their own way to record the exchange/regrouping.

Just writing the numbers as shown here shows that the child understands the method and knows when

to exchange/regroup.

	000	25	4-50	20
	300	130	6	
-	200	50	4	
	500	80	2	

Children can start their formal written method by partitioning the number into clear place value columns.

6 7	12	8	
5	8	2	
T	4	6	

Year 5 and 6

Column method

Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).

Add and subtract numbers mentally with increasingly large numbers.

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.

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

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. Solve problems involving addition, subtraction, multiplication and division.

Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.

Show children how the concrete method links to the written method alongside your working.Cross out the numbers when exchanging and show where we write our new amount.









As year 4 if needed with decimal numbers.



Move children onto using the column method to subtract increasingly larger numbers. Including those where more than one borrow is required.



Then, develop an understanding of subtracting any number including decimals.



Use concrete materials to represent columnar subtraction with decimal numbers. Decimal numbers can also be represented with base equipment.	26.7 - 17.9 To . 10 B C Q Q	Use concrete materials to represent columnar subtraction with decimal numbers. Decimal numbers can also be represented with base equipment.	
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