Nursery & Reception		Nursery & Reception Subtractior	ı
Subtraction as	Concrete	Picture	Abstract
counting back or taking away This is perhaps the most intuitive aspect of subtraction. Children can establish how many in a set and then count back as one, two or three ob jects are removed.	Make the larger number in your subtraction. Use counters and move them away from the group as you take backwards as you go. Move the beads along your bead string as you count backwards in ones.	Count back on a number line or number track 9 10 11 12 13 14 15 Start at the bigger number and count back the smaller number showing the jumps on the number line.	Put 13 in a pot, count back 4. What number are you at? Use your fingers to help.
	Уеа	r I Subtraction	I
	Concrete	Picture	Abstract
Taking away, how many left? Crossing out	Use physical objects, counters, cubes etc. to show how objects can be taken away. 6 - 2 = 4 $4 - 2 = 2$	Cross out drawn objects to show what has been taken away.	18 – 3 = 15 8 – 2 = 6

Finding a part, breaking apart	Link to addition- use the part whole model to help explain the inverse between addition and subtraction.	Use a pictorial representation of objects to show the part part whole model.	Move to using numbers within the part whole model.
	If 10 is the whole and 6 is one of the parts. What is the other part? 10 - 6 =		
Counting back	Make the larger number in your subtraction. Use counters and move them away from the group as you take them away counting backwards as you go. Move the beads along your bead	Count back on a number line or number track 9 10 11 12 13 14 15 Start at the bigger number and count back the smaller number showing the jumps on the number line. -10 -10 -10 -10 -10	Put 13 in your head, count back 4. What number are you at? Use your fingers to help.
	string as you count backwards in ones.	34 35 36 37 This can progress all the way to counting back using two 2 digit numbers.	



Subtract a I-digit	Use a bead string	Steps in subtraction can be recorded	22 – 7 =
number from a 2-digit	5	on a number line.	
number — crossing ten		-1 -1 -1 -1 -1 -1 -1 15 16 17 18 19 20 21 22	15 – 7 =
		Then use number bonds to become	
		more efficient.	
		-5 -2 15 20 22	
		-2 -5	
		8 10 15	
Subtract a 2-digit	Use Base 10 to	Draw the Base 10 or place value	Use partitioning: $\sqrt{7} - 7\sqrt{1} = 23$
number from a 2-digit	make the bigger 🛛 📶 \cdots	counters alongside the written	+7 24
number — not crossing	number then take	calculation to help to show working.	_ 20+4
ten	the smaller number		20+3
	away.	$\frac{-22}{32}$	Column Subtraction: 32 -12 70

Subtract a 2-digit	Use Base 10 to start with before	The Empty Number Line	Expanded Vertical Method:
number from a 2-digit number – crossing ten – subtract ones and tens	moving on to place value counters. Start with one exchange before moving onto subtractions with 2 exchanges.	74 - 27 = 47 worked by counting back: $\frac{-3}{47} - \frac{-4}{50} - \frac{-20}{74}$ or in different order: $\frac{-20}{47} - \frac{-3}{67} - \frac{-4}{70} - \frac{-4}{74}$	Use partitioning: 70 + 4 $70 + 14-20 + 7$ $-20 + 740 + 7Column Verticalmethod: 7 + 4-2747$

Year 3 Subtraction			
Year 3	Concrete	Picture	Abstract
subtract multiples of 100	Use base 10 / place value counters	Use the picture to solve: 234 - 100 = 234 - 200 = Hundreds Tens Ones	725 – 300 = 725 – 600 =
Subtract 3-digit numbers and ones – not crossing IO	Use base 10 / place value counters	Use pictures: 214 – 3= <u>H T O</u> • • • • •	Mentally solve 725 – 4 = Sam has 534 team points and gets four more. Tim has 534 team points and loses four of his. How many team points does each child have? Who has the most?
Subtract a I-digit number from a 3- digit number – crossing 10	Using Base 10 solve 321 – 4	Use pictures of base 10 or place value counters	132 – 4 = Mental subtraction: partition the 4 into 2 and 2.132 – 2 = 130 - 2 = 128
subtract 3-digit numbers and tens – not crossing 100	Use place value counters to solve: 452 - 2 tens = H T O	Use pictures of base 10 or place value counters	432 - 10 = 768 - 50 =

Subtract tens from a		Count back in tens to solve the	
3-digit number –		calculation 240 – 70 =	
crossing 100			
		160 170 180 190 200 210 220 230 240 250 260	
subtract 100s	l lee hase 10 / place value counters		Complete mentallu:
subtruct 100s	Use buse 10 / place value counters		67E 200
	and practise taking the hundreds		0/5 - 300 =
	away		897 - 500 =
subiraci any Z-aigii	Ose base 10 7 place value counters		/20 - 14 =
from a 3-digit	and practise taking them away		725 21
number — not crossing			/23 - 21 =
10 or 100			
Subtract a 2-digit	Use dienes / base 10 or place value	Use pictures and draw	Expanded Column Method
number from a 3-	counters		Children can start their formal written method hu
digit number — cross		553 - 32 =	partitioning the number into clear place value
the Is, 10 or 100	235 – 29 =		columns.
	н т о	н т о	
The term 'exchange' will	00000		нто
be key auring inis small			3 5 2
understanding of place			89-
value will help them to see			3 3 7
when they should be			
exchanging.			

Subtract a 3-digit number from a 3- digit number – no exchange	233 - 121 = No regrouping	See above	725 – 423 = 725 = 312 =
Subtract a 3-digit number from a 3- digit number – exchange	Use place value counters 372 - 165 $629 - 483$ H T 0 00	Show pictures $\begin{array}{c cccc} \hline & & & & & & & & & & & & & & & & & & &$	Expanded Column Method Children can start their formal written method by partitioning the number into clear place value columns. Moving forward the children use a more compact method. Example: $741 - 367$ $\frac{600}{700} + 70 + 4$ $\frac{130}{300} + 70 + 4$ $\frac{613}{374}$ $\frac{613}{374}$ $\frac{613}{374}$ $\frac{613}{374}$

Year 4	Concrete	Picture	Abstract
	Use Base 10 to start with before moving on to place value counters. Start with one exchange before moving onto subtractions with 2 exchanges. Make the larger number with the place value counters		Decimal subtraction without regrouping
		Start with the ones, can I take away 8 Start with the ones, can I take away 8 from 4 easily? I need to exchange one of my tens for ten ones.	- 1.5
		l <u>culations</u> 234 Now I can subtract my ones. <u>88</u>	Decimal subtraction with regrouping
	Now look at the tens, can I take away 8 ter	s easily? ²³⁴ I need to exchange one hundred for ten <u>88</u> tens.	



	Year 5 & 6 Subtraction
Year 5 & 6	Abstract
Expanded Vertical	Example: 563 – 241, no ad justment or decomposition needed
Nethod and Compact Vertical Method	Expanded method $500 + 60 + 3$ leading to $-200 + 40 + 1$ -241 -241 $-300 + 20 + 2$ -322
	Start by subtracting the units, then the tens, then the hundreds. Refer to subtracting the tens, for example, by saying `sixty take away forty', not `six take away four'.
	Example: 563 – 271, adjustment from the hundreds to the tens, or partitioning the hundreds
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	Begin by reading aloud the number from which we are subtracting: 'five hundred and sixty-three'. Then discuss the hundreds, tens and ones components of the number, and how 500 + 60 can be partitioned into 400 + 160. The subtraction of the tens becomes '160 minus 70', an application of subtraction of multiples of ten.
	932-457 becomes Build up to the most efficient method. Build up to the most efficient method. Answer: 475