Take away: partitioning or counting out I had 6 sweets and ate 3 of them. How many are left for tomorrow? How many are left? There were five frogs. Two jumped into the pond. How many were left? 7-3= Mum baked 7 biscuits. I ate 3. How many were left?	Subtraction	Understand subtraction as 'taking	Vocab/Key
Take away: partitioning or counting out I had 6 sweets and ate 3 of them. How many are left for tomorrow? How many are left? There were five frogs. Two jumped into the pond. How many were left? $5-\square=3$ $\square-2=3$ Mum baked 7 biscuits. I ate 3. How many were left?	(Counting back)	away'.	Questions
Take away: partitioning or counting out I had 6 sweets and ate 3 of them. How many are left for tomorrow? How many are left? There were five frogs. Two jumped into the pond. How many were left? $5 - \square = 3 \square - 2 = 3$ Mum baked 7 biscuits. I ate 3. How many were left?	Stage 1a		
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There were five frogs. Two jumped into the pond. How many were left? 7-3= Mum baked 7 biscuits. I ate 3. How many were left?	rake away. par iiii	oning or counting out	, , , , , , , , , , , , , , , , , , ,
There were five frogs. Two jumped into the pond. How many were left? $5- = 3 = -2=3$ Mum baked 7 biscuits. I ate 3. How many were left?	I had 6 sweets and	ate 3 of them. How many are left for tomorrow?	uway
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5- = 3 $= -2=3$ 7-3= Mum baked 7 biscuits. I ate 3. How many were left?			left?
Mum baked 7 biscuits. I ate 3. How many were left?		-2=3	
	7-3=		
	Mum baked 7 biscu	its. I ate 3. How many were left?	
	Mum baked 7 biscu	its. I ate 3. How many were left?	

Subtraction (Counting back) Stage 1b	Understand subtraction as 'taking away'.	Vocab/Key Questions
Counting back from:	reduction	See Stage 1a.
1 less than 10		
	1 2 3 4 5 6 7 8 9 10	
 I less than 10 is 9 10 subtract equals 9 10 - I = 9 		
0 1 2 3 4 5 6 7 8 9	10	
A chocolate bar cost & does the chocolate bal	8p. The shopkeeper had a sale and took 3p off. How much r cost now?	
I less than 2 less than 3 less than	8 is? 7,6	
count back one, two	7, 6, 5 7 8 9 10 o or three	
10 and 4 less		
0 1 2 3 4	5 6 7 8 9 10	

Subtraction				
(Counting back)				
Stage 2				

Partition 1 number and subtract.

Vocab/Key Questions

83 - 51 = 83 - 50 - 1 = 33 - 1 = 32 Partition, value, digit, count back, take away

Steps in subtraction can be recorded on a number line:

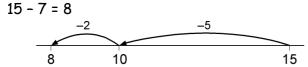
Why does the starting number go at the end of the line?



How many tens do we need to subtract to get to the next

The steps often bridge through a multiple of 10:

'friendly number'?



How many more tens are left?

74 - 27 = 47 worked by counting back:

Where is the answer?



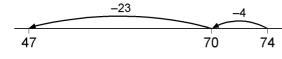
How could we check our

answer?

The steps may be recorded in a different order:



or combined:



Subtraction (Counting back) Stage 3a	•	on a number line (take h and add on).	Vocab/Key Questions
84 - 58	84		Friendly number, round number, boundary, 'pay back' When is this strategy useful? When is it unhelpful?
Subtraction (Counting back) Stage 3b		er line – can be used f the previous methods.	Vocab/Key Questions
	ext e.g. temperature:	Vertical line using compensation: 84 - 58 84 -60 26 +2 24	Negative number, below zero, count up/count down When might a vertical number line make more sense than a horizontal one?

Partitioning and vertical subtraction with jottings: Partitioning and vertical subtraction without jottings: Partitioning and vertical subtraction without jottings: $ \begin{array}{cccccccccccccccccccccccccccccccccc$		artition 1 number and subtract sing vertical method.	Vocab/Key Questions
	Partitioning and vertical swith jottings: 6467 - 2684 4467 (- 2686) 3867 (- 6686) 3787 (- 8686)	6467 - 2684 (000) 4467 (00) 3867 (0) 3787	hundreds, tens, units, sub-total How is this similar to subtracting on a number line? How is it

Subtraction
(Counting back)
Stage 5

Partition both numbers and subtract.

Vocab/Key Questions

Partitioned numbers are written under one another:

Why do we need to start with the units now?

Can you take 7 away from 4? Why not?

If we take a thousand, how much will we now have in the hundreds column?

Adjust when crossing barriers:

Subtraction Counting back) Stage 6	Partition and subtract leading to column subtraction.	Vocab/Key Questions
	ing examples is in order of difficulty.	See Stage 5
563 – 271, adjustme hundreds:	ent from the hundreds to the tens, or partitioning the	
	400 160 4 16 5 0 0 + 6 0 + 3 5 6 3 - 2 0 0 + 7 0 + 1 - 2 7 1 2 0 0 + 9 0 + 2 2 9 2	
563 - 278, adjustmo	ent from the hundreds to the tens and the tens to the	
5 0 0 + 6 0 + 3 - 2 0 0 + 7 0 + 8	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	

100 13

5 0 0 + 0 + 3

200+20+5

- 200+70+8

4 9 1 5 0 3

- 278

2 2 5

400

500+0+3

- 200+70+8

Subtraction (Counting up) Stage 1a	Understand subtraction as 'finding the difference between' and 'how many more to make'.	Vocab/Key Questions
onto how many less Max has 5 cubes. Max	illy has 2 cubes. How many more cubes does Max have? 2.3,4,5 er cubes does Milly have?	More, difference Can you count on from?
	and doll costs 20p. How much more does the teddy cost? s the doll?	
If my friend is 14 and the second sec	between II and I4 is 3. $14 - II = 3$ $II + \square = I4$	

Subtraction (Counting up) Stage 1b

Understand subtraction as 'finding the difference between' and 'how many more to make'.

3 + 7 = 10

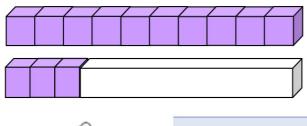
10 - 7 = 3

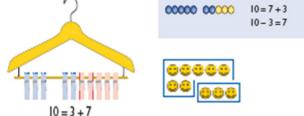
Vocab/Key Questions

See Stage 1a

Inverse: subtraction reverses addition

I have 3 cubes. I want 10 cubes. How many more do I need?





I want 12 certificates but I only have 7. How many more do I need?

7 • • • • • • 8 9 10 11 12

You could use dots or tally marks to represent objects (quicker than drawing a picture)

Subtraction (Counting up) Stage 2	Count on from the smaller number in 1s without partitioning.	Vocab/Key Questions
How many more do	ats in a jar that holds 21. I need to fill it up? 1	More, difference Can you count on from? How many more?
Subtraction (Counting up) Stage 3	Count on from the smaller number using a number line.	Vocab/Key Questions
Steve has 84 hous while Ed has 56. I Ed need to earn to amount as Steve?	dow many does best friend's is 24.6m. How much	Number bonds, crossing boundaries, round numbers, multiple of adjustment, estimate
$56 \to 84$ $56 \to 60$ $20 + 4 + 4 = 28$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	What is the next friendly number/round number? How many do we

Subtraction More efficient mental calculations (Counting up) with a number line. Stage 4	Vocab/Key Questions
84 - 56 = Count across boundaries with reduced need to partition:	Efficient, count on in tens, 100's, adjust Which strategy
66 76 84 $= 28$	do you prefer? Why? When might you add too much and compensate?
Compensation on a number line (add too much and take away extra). $ \begin{array}{c} $	

Subtraction (Counting up) Stage 5	Count on from the smaller number set out in columns.	Vocab/Key Questions
	d to calculate total (complementary addition):	Partition, subtotal
Difference between 56 + 4 (→ 60) + 40 (→ 100 +100 (→ 200 + 84 (→ 284) 228) D) D)	How is this similar to using a 'find the difference' number line? Why is this layout more
Using column method Difference between	d to support efficient mental calculation: 56 and 284	efficient?
56 + 200 (→ 25) + 20 (→ 27) + 8 (→ 28) 228	6)	
leads to 56 + 200 (→ 256 + 28 (→ 286 228	,	