

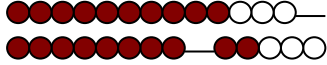
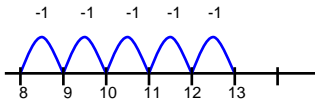
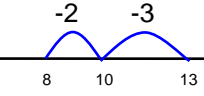
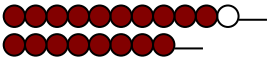
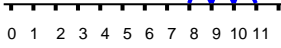
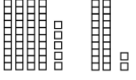
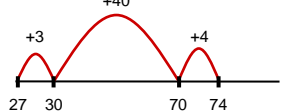
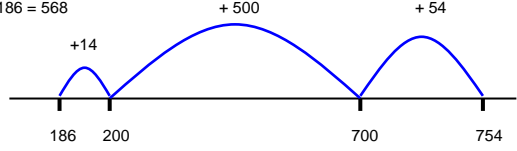
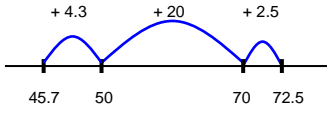


Calculation Policy : Subtraction

	Age related expectations	Methods		Rapid recall	Mental calculation		
EYFS	Find 1 less than a number (up to 10) Subtraction as 'taking away' from a group 1 digit - 1 digit	Practical or recorded using ICT (e.g. digital photos / pictures on IWB)	Pictures / Objects I have five cakes. I eat two of them. How many do I have left?  Might be recorded as: $5 - 2 = 3$	Symbols Mum baked 9 biscuits. I ate 5. How many were left? [Might be recorded as: $9 - 5 = 4$] 	1 less (nos. up to 20)	(see recording)	
Y1	Subtraction as 'taking away' and 'difference' (by counting on) Subtract 1 digit + 2 digit numbers to 20 including zero		Taking away – jumps of 1 (modelled using bead strings) $13 - 5 = 8$  	Taking away (efficient jumps) $13 - 5 =$ -2 -3  No number line: $13 - 3 = 10$ $10 - 2 = 8$	Counting on – jumps of 1 (modelled using bead strings) $11 - 8 = 3$  	Counting on (efficient jumps) Number line / no number line $8 + 2 = 10$ $10 + 1 = 11$	Subtraction facts to 10 1 or 10 less than a number
Y2	Subtraction as inverse of addition Subtract numbers including 2 digit no and 1's, 2 digit no and tens, two 2 digit nos.	Pictures / Symbols $45 - 22 = 23$ 	Partitioning $74 - 27$ $74 - 20 = 54$ $54 - 4 = 50$ $50 - 3 = 47$	Number lines – counting on $74 - 27 = 47$  Empty or numbered lines are a useful way of modelling processes such as bridging through multiples of ten. The steps can be recorded by counting on. The steps may be recorded in a different order or combined. With practice children will record less information [Also jumps can be in 10s and 1s]	Subtraction facts to at least 20 and use related fact up to 100	Difference by counting up Subtract 1's or tens from a 2 digit numbers Subtract two 2 digit numbers eg 36-18	
Y3	Subtract nos. with up to 3 digits using formal methods	Number lines – counting on $754 - 186 = 568$ 		No number line – mental + jottings Use the lower number as your starting point and the larger number as your 'target number.' From smallest number count on to the next multiple of 10. Then jump to the multiple of 10 before your target number, before finally arriving at your target number, e.g. $74 - 27 = 47$ 3 (to make 30) 40 (to make 70) 4 (to make 74) Add all numbers together to find the difference. Adapt jumps as needed using chn knowledge of place value $7.4 - 2.7 = 4.7$ 0.3 (to make 3.0) 4.0 (to make 7.0) 0.4 (to make 7.4)	Decomposition (formal column method) $\begin{array}{r} 5 \ 13 \ 11 \\ 744 \\ - 367 \\ \hline 377 \end{array}$ $72.5 - 45.7$ $\begin{array}{r} 6 \ 7 \ 11 \ 2 \ 15 \\ 72.5 \\ - 45.7 \\ \hline 26.8 \end{array}$ Ensure you use the place value of the column eg say 15 tenths take away 7 tenths not 15 - 7. Say 60 take away 40, not 6-4	Subtraction facts – pairs that total 100 Differences of multiples of 10	Subtract 1's, tens or hundreds from a 3 digit numbers Subtract fractions with same denominator to 1
Y4	Subtract nos. with up to 4 digits using formal methods Decimals: money (£7.85 - £3.49)	$72.5 - 45.7 = 26.8$ 		Add all numbers together to find the difference. Adapt jumps as needed using chn knowledge of place value $7.4 - 2.7 = 4.7$ 0.3 (to make 3.0) 4.0 (to make 7.0) 0.4 (to make 7.4)	Derive differences of pairs of multiples of 10 / 100 / 1000 Use number facts for mental subtraction $9 - 2 = 7$ $0.9 - 0.2 = 0.7$ $0.09 - 0.02 = 0.07$	Consolidate Y3 above Subtract fractions with same denominator	
Y5	Subtract whole numbers with more than 4 digits Solve problems involving no up to 3dp			Add all numbers together to find the difference. Adapt jumps as needed using chn knowledge of place value $7.4 - 2.7 = 4.7$ 0.3 (to make 3.0) 4.0 (to make 7.0) 0.4 (to make 7.4)	Use number facts for mental subtraction $9 - 2 = 7$ $0.9 - 0.2 = 0.7$ $0.09 - 0.02 = 0.07$	Subtract increasingly large numbers Subtract fractions of same denominator and multiples of same number	
Y6	Consolidate / extend Y5 including: Solving multi-step problems Subtract fractions with different denominators and mixed numbers	Recognise when one written method is more efficient. (See above methods of recording) <ul style="list-style-type: none"> ➤ There was 2.5 litres in the jug. Stuart drank 385 ml. How much was left? ➤ 18.07 km - 3.243 km 		(as above)	Consolidate Y5 above		

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