Key Vocabulary: take away, difference between, how many are left/left over? How many are gone?, one less, two less, ten less. How many fewer is...than...? How much less is...? minuend, subtrahend, difference.

Counting fluency: To count forwards and backwards in steps of 1s, 2s, 5s and 10s.

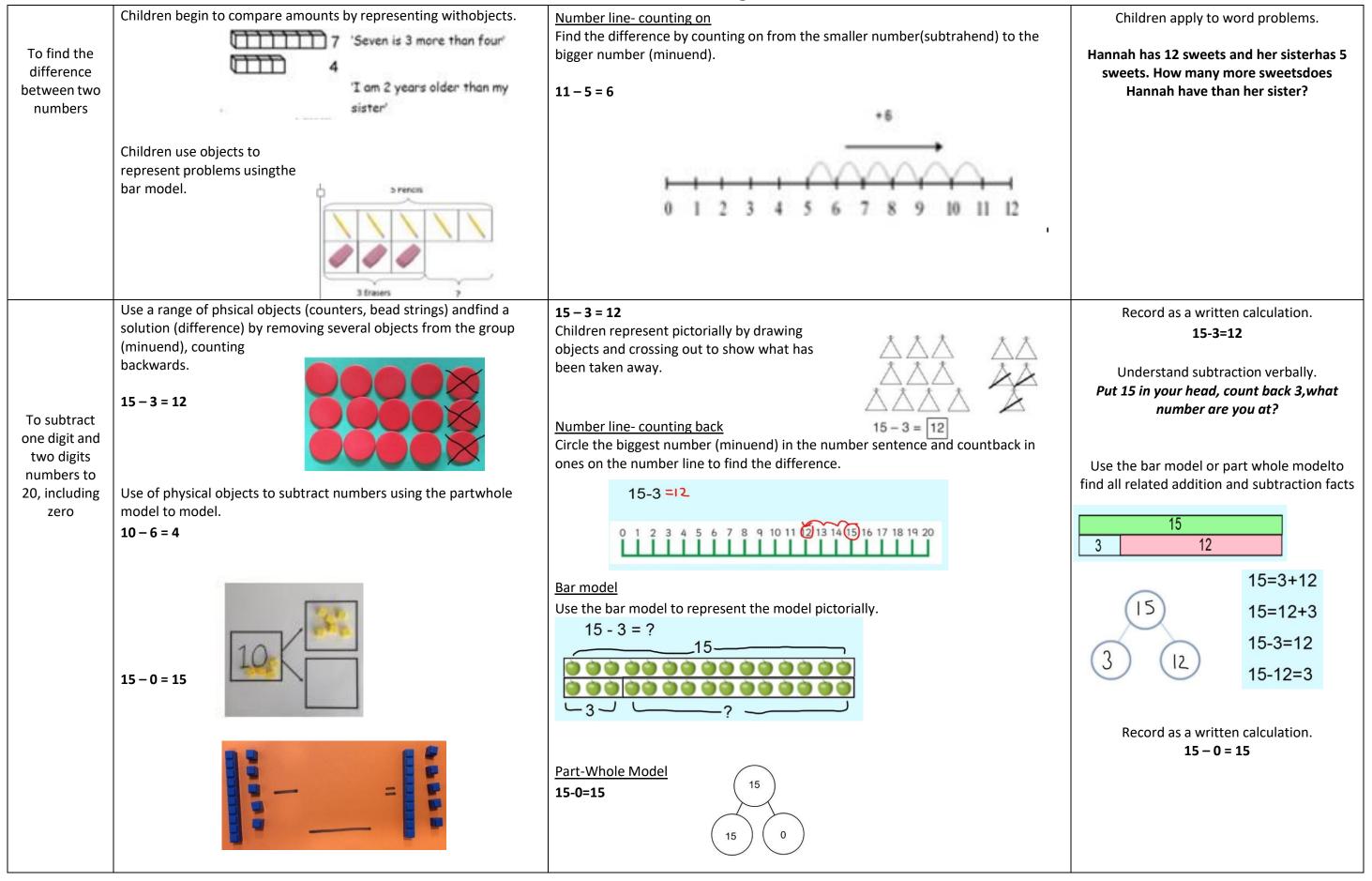
Objective & Strategy	Concrete	Pictorial	Abstract
To find one less than a number.	Use physical objects to find the solution by taking away one object from thewhole. Can you find one less than the number? Can you find one less than the number? Can you find one less?	Can you find one less than the number? Modelled on a number line Circle the biggest number in the number sentence and countback one on the number line to find the solution. One less than 7 1 2 3 4 5 6 7 8 9 10	Record as a written calculation. 7 – 1 = 6
Subtract two single digit numbers.	Use a range of physical objects, including number beads. Children will find the solution by making the number first then removing several objects from the whole. 6 - 3 = 3	Modelled on a number line Circle the biggest number in the number sentence and countback in ones on the number line to find the solution. 6-3=3	Record as a written calculation. $6-3=3$
		0 1 2 3 4 5 6 7 8 9 10	

<u>Year 1</u>

Key Vocabulary: subtract, take away, difference between, how many are left/ left over? How many are gone? One less, two less, ten less. How many fewer is...than...? How much less is...? minuend, subtrahend, difference.

Counting fluency: To count forwards and backwards in steps of 1s, 2s, 5s and 10s.

Objective & Strategy	Concrete	Pictorial	Abstract
To find one less than a number.	Modelled using counters One less than 16 Use physical objects and find the solution (difference) by taking away one object from the group (minuend), counting backwards. Modelled using Base 10Ten	Number line Circle the biggest number (minuend) in the number sentence and countback one (subtrahend) on the number line to find the solution (difference). 16-1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Record as a written calculation. 16-1=15
To find ten less than a number.	Iess than 35 Step 1-Make the number (minuend) usingbase 10 or concrete resources. Step 2- Take 10 (subtrahend) away. Step 3-Calculate the final answer by counting how many are left (difference).	Modelled using 100 square35 — 10 = 25 Step 1-Circle the number you are starting at (minuend) e.g. 35 I 2 3 4 5 6 7 8 9 10 II 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	35 – 10 = 25
Subtract two single digit numbers.	Use a range of physical objects, including number beads. Children will find the solution (difference) by making the number (minuend) first then removing several objects fromthe whole. 6 - 3 = 3	Modelled on a number line Circle the biggest number (minuend) in the number sentence and countback in ones (subtrahend) on the number line to find the solution (difference). 6-3=3 1	Record as a written calculation. $6-3=3$



To subtract ones from 10 or 20

Modelled using uni-fix cubes 10 -

3 = 7



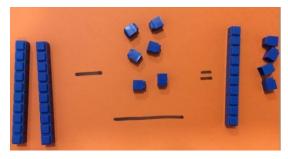
Step 1-Make the bigger number (minuend).

Step 2-take away the smaller number (subtrahend).



Step 3-count how many are left to findout the difference.

20-6= 14

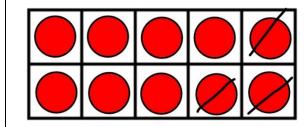


Make the number sentence using Base 10. To find the difference, exchange one ten for 10 ones and subtract the smaller number (subtrahend). Add up how much is left to find the difference.

Modelled using the tens frame

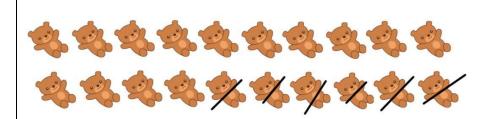
Using a tens frame or pictorial representations, children will count out10 or 20 counters/pictorial representations and either take them awayor cross them out.

10 - 3 = 7



Modelled using a pixctorial representation 20 - 6 =

14



Record as a written calculation.

10 - 3 = 7

20 - 6 = 14

Year 2

<u>Key Vocabulary:</u> subtract, take away, difference between, how many are left/ left over? How many are gone? one less, two less, ten less, hundred less. How many fewer is...than...? How much lessis...? tens boundary, minuend, subtrahend, difference.

Counting fluency: To count forwards and backwards in steps of 2s, 3s, 4s, 5s and 10s.

Mental strategies

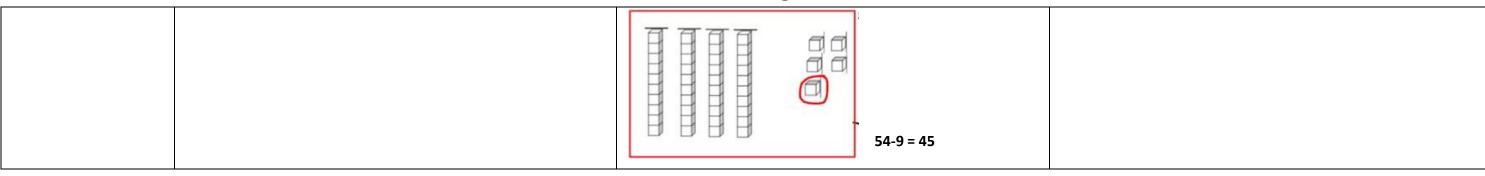
Skill		Strategy		
To subtract 9 to a 2-	54-9	• • •		s actually one less than 10. Children will begin to do this mentallywithout equipment.
digit number by		For 54-9 you would first subtract 10	54-10 = 44 then add 1,	44+1=45 so 54-9=45.
adjusting.				

Year 2 Calculation Methods

Objective &	Concrete	Pictorial	Abstract
To regroup a ten into ten ones.	Use base 10 to show how to exchange a ten into ten onesin order to subtract the ones. 20 - 4= 16	Children represent pictorially by drawing objects in groups of ten and crossing out to show what has beentaken away. 20 – 4 = 16	Record as a written calculation. 20-4=16
To subtract numbers using objects, pictures and mentally including: -a 2-digit number and ones -a 2-digit number and tens -two 2-digit numbers	Use the base ten to represent the numbers (minuend) then use knowledge of exchanging tens for ten ones to subtract the subtrahend. 34-9= 25 45-20= 25 93-76= 17	Modelled using a number line or 100 square Count back from largest (minuend) to smallest(subtrahend) number to find the difference. 34-9=25 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 45-20=25 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 93-76=17	Use of a written method Record by drawing their own number line. Children countup from the smallest (subtrahend) to largest (minuend) number. Children would first count on to the next ten and then the rest. $34 - 9 = 25$ $45 - 20 = 25$

		Calculation Progression – Subtraction	
To use partitioning to subtract two digit numbers. To use partitioning to subtract two digit numbers with regrouping.	Use base 10 to make the number (minuend). Take awaythe ones then the tens to find the difference. 43 – 21 = 22 Use base 10 to make the number (minuend) then regroupby exchanging a ten for ten ones where necessary so that you can subtract the subtrahend. 45-29= 16	Children draw pictorial representations and cross offthe ones then the tens. 43-21 = 22 Children draw pictorial representations to show the regrouping in order to find how many are left. 45 - 29 = 16	Formal Written Method Partition each number then subtract the bottom number (subtrahend) from the top number (minuend), starting with the ones. $43 = 40 + 3$ $21 = 20 + 1$ $20 + 2 = 22$ Formal Written Method Partition each number then subtract the bottom number (subtrahend) from the top number (minuend), starting with the ones. Exchange tens for ones then recombine to find the solution.
To subtract tens from the tens number up to 100.	Modelled using Base 10 80 – 30 = 50 Use Base 10 to make the number (minuend). Then takeaway the number of tens (subtrahend) required and regroup to find the difference.	Modelled using pictorial representations of Base 1080 – 30 = 50 Children would cross out how many tens they are subtracting and count how many they have left to findthe difference.	45 - 29 = 16 $45 = 40 + 5$ $29 = 20 + 9$ $10 + 6 = 16$ Record as a written calculation. $80 - 30 = 50$
To subtract tens from a 2-digit number	Modelled using Base 1058 - 20 = 28	Modelled using pictorial representations of Base 1058 – 20 = 28	Record as a written calculation. $58-20=28$

	Use Base 10 to make the number (minuend). Then takeaway the number of tens (subtrahend) required and regroup to find the difference.	Children would cross out how many tens they are subtracting and count how many they have left to findthe difference.	
	Modelled using Base 10	Modelled using pictorial representations of Base 1010 – 3 = 7	Record as a written calculation.
To derive related facts up to 100.	10 – 3 = 7	100 - 30 = 70.	10 – 3 = 7
	100 - 30 = 70		10 – 30 = 70.
To subtract 9 from a2-	Modelled using Base 10	Modelled using pictorial representations of Base 1054 – 9 =	
digit number by	54 – 9 = 63	45	Record as a written calculation.
adjusting	Step 1: Make the number sentence Step 2: If the number needed to subtract is 9, make this a ten by adding one more. This will be exchanged for 1 ten.	Step 1- Add 1 to the 9 to make 10.	54 – 9 = 45
	Step 3: Subtract 10 from the number (minuend), because the original number was 9, 1 will need to be subtracted from the difference.	Step 2- Subtract 10 from the minuend. 54 - 10 Step 3- Now add the 1 back odd to find the difference.	



Year 3

<u>Key Vocabulary:</u> subtract, take away, difference between, how many are left/ left over? How many are gone?, one less, two less, ten less, hundred less. How many fewer is...than...? How much lessis...? tens boundary, hundreds boundary, minuend, subtrahend, difference.

Counting fluency: To count forwards and backwards in steps of 2s, 3s, 4s, 5s, 6s, 8s, 10s and 100s from any given number.

Mental strategies

Skill	Strategy
*Subtract a 3-digit number and ones, including crossing boundaries.	If the ones in the second number (subtrahend) can be taken from the first number (minuend) then subtract the ones only $34\underline{5}-\underline{3}=34\underline{2}$. If the ones in the subtrahend are more than the minuend then use partitioning to solve. For 432-8 you would partition 8 into 2 and 6 then 432 - 2 = 430-6 = 424.
*Subtract a 3- digit number and tens including crossing boundaries.	554-40 If the tens in the second number (subtrahend) can be taken from the first number (minuend) then subtract the tens 554-40= 514 If the tens in the subtrahend are more than the minuend then use partitioning to solve. For 543-70 you would partition 70 into 40 and 30 andthen 543 - 40 = 503 - 30 = 473. Alternatively you could count back in steps of ten from the minuend.
*Subtract a 3-digit number and hundreds including crossing boundaries.	<u>7</u> 54- <u>4</u> 00 If the hundreds in the second number (subtrahend) can be taken from the first number (minuend) then subtract the hundreds <u>7</u> 54- <u>4</u> 00= <u>3</u> 54Alternatively you could count back in steps of one hundred from the minuend.
*Subtract ones from a 3-digit tens number.	3 <u>40-7</u> Use knowledge of place value to solve. 10- <u>3</u> = 7 so 40-7= 3 <u>3</u> then add on the 300. 340- <u>7</u> =33 <u>3</u>
* Subtract a 2-digit number from a multiple of 10 including crossing boundaries	Use knowledge of place value and partitioning to solve. Partition 27 into 20 and 7 and subtract each part from 90. 90-20=70 and useknowledge of number bonds that 10-7=3 so 70-7=63 Or use the counting on method to find the difference. If I start with 27 and add 3 I get to 30 then I need to add 60 more to get to 90 so90-27=63
Subtract a 2-digit number from a 2-digit number, including crossing boundaries.	If the ones and tens can be subtracted without exchange then subtract by partitioning. 56-32 would be 50-30 = 20 and 6 – 2 = 4 thenrecombine 20 and 4 to make 24 so 56-32=24. If the ones in the second number (subtrahend) is more than the first number (minuend) then use partitioning to solve. For 45-27 you couldpartition 27 into 20 and 7 first. Then subtract from the minuend. 45-20 = 25 then 25-7=18 so 45-27=18 Or use the counting on method to find the difference. If I start with 27 and add 3 I get to 30 then I need to add 10 more to get to 40then another 5 more to get to 45. I then recombine 3 with 10 with 5 so 45-27=18
*Subtract near multiples of 10 and 100and adjust .	43-9 When subtracting 9 you would subtract 10 (1 more than 9) from the minuend then add 1 because 10 is actually one more than 9. For 43-9, you would do43-10=33 +1 = 44. 543-99 When subtracting 99 you would subtract 100 (1 more than 99) from the minuend then add 1 because 100 is actually one more than 99. For 543-99, you would ob43-100=443 +1 = 444.

Year 3 Calculation Methods

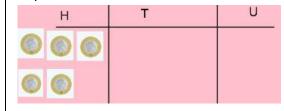
Objective & Strategy	Concrete	Pictorial	Abstract
	Use base 10 to make the number (minuend) then take	Children draw pictorial representations to showthe	Written Method (expanded method)
To subtract 2 and 3 digit	away the ones, tens then the hundreds to findthe	regrouping in order to find how many are left.	Partition each number then subtract the bottom number (minuend)
numbers without	difference.		from the top number (subtrahend), starting withthe ones.
exchange.		43-21=22	43- 21 = 22 356 - 133= 223
	43 - 21 = 22 Tens Ones Tens Ones		43 = 40 + 3
	files If		21 = 20 + 1
		□ □ □ 56 - 133=	20 +2 = 22 200 +20 +3 = 223
		Hundreds tens ones	
	356 - 133= 223	00000	Formal Written Method
	Hundreds Tens Ones Hundreds Tens Ones		(condensed method)
	feete eg		Children begin to use a condensed
			columnar method of 43 365
		2 2 3	subtraction.
			21 133 22 232
			22 232
	Use base 10 to make the number (minuend) then	Children draw pictorial representations to show the	Written Method (expanded)
	regroup by exchanging a ten for ten ones and a hundred	regrouping in order to find the difference. 45 - 29 = 16	Partition each number then subtract the bottom numberfrom the
To subtract 2 and 3	for ten tens where necessary so that youcan subtract the		top, starting with the ones. Exchange tens for ones then
digit numbers with	subtrahend.	45	recombine to find the solution.
exchange.	45-29=16	729 Tens Ones	45 20
	Tens Ches Jens Ones	16 180W 22 338	45 – 29 435-117=318
		435-117= 318	45 = 30 + 5 $435 = 400 + 30 + 5$
		Step 1: Step 2:	40 - 40 . 3
	Step 1: Make the minuend	435-117=	$29 = 20 + 9 \qquad \frac{117 = 100 + 10 + 7}{1}$
	Step 2: Exchange 1 ten for 10 ones. Step 3:		300+10+ Q = 318
	Subtract two tens and 9 ones.		10 +6 =16
	435 – 117 = 318	435-117=	Formal Written Method (condensed method)
	Handreds Tens Ones Handreds Tens Ones	Step 3:	Children begin to use a condensed columnar method of
	11 22 1 1 22		subtraction with exchange in one column.
			31 21
		435-117= 3\8 hundreds tens ones	435 435
	Step 1: Make the minuend		<u>29</u> <u>117</u>
	Step 2: Exchange 1 ten for 10 ones.		29 16 318
	Step 3: Subtract one hundred,1 ten and 7 ones.		
		3 1 8	

To subtract amounts of money to give change.

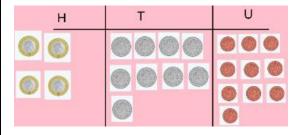
Use base money to make the number (minuend) then regroup by exchanging a ten for ten ones and a hundred for ten tens where necessary so that you can subtract to find the difference.

£5-2.72

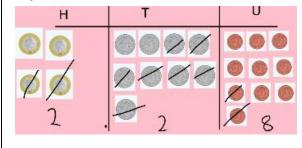
Step 1: Make the Number



Step 2: Exchange



Step 3: Subtract to solve



Children draw pictorial representations to showthe regrouping in order to find how many are left, this can be in the form of a number line.

Modelled using a number line.

Children start with the smallest number (subtrahend) and add to the nearest tenth, thennearest 1, until you reach the biggest number (minuend). Children will then need to add the jumps to calculate the change.

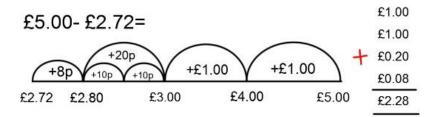


Formal written method

Children complete subtractions involving decimals which are presented in word problem format. They use zeros for place holders and know that decimal points should line up under each other.

I go to the shop with £5.00

I spend £2.72 - how much change do I get?



Year 4

<u>Key Vocabulary:</u> subtract, take away, difference between, how many are left/ left over? How many are gone? One less, two less, ten less, hundred less. How many fewer is...than...? How much lessis...? tens boundary, hundreds boundary, inverse, minuend, subtrahend, difference.

Counting fluency: To count backwards and forwards in steps of 2s, 3s, 4s, 5s, 6s, 7s, 8s, 9s, 10s, 11s, 12s, 100s and 1000s from any given starting number.

Mental strategies

Skill	Strategy
*Subtract a 4-digit number and ones, including crossing boundaries.	If the ones in the second number (subtrahend) can be taken from the first number (minuend) then subtract the ones only 334 <u>5</u> - <u>3</u> = 334 <u>2</u> . If the ones in the subtrahend are more than the minuend then use partitioning to solve. For 2432-8 you would partition 8 into 2 and 6 then2432 – <u>2</u> = 430 <u>-6</u> = 2424.
*Subtract a 4- digit number and tens including crossing boundaries.	If the tens in the second number (subtrahend) can be taken from the first number (minuend) then subtract the tens 5554-40=5514 2543-70 If the tens in the subtrahend are more than the minuend then use partitioning to solve. For 2543-70 you would partition 70 into 40 and 30 andthen 2543 - 40 = 2503 -30 = 2473. Alternatively you could count back in steps of ten from the minuend.
*Subtract a 4-digit number and hundreds including crossing boundaries.	8754-400 If the hundreds in the second number (subtrahend) can be taken from the first number (minuend) then subtract the hundreds 8754-400= 8354 If the hundreds in the subtrahend are more than the minuend then use partitioning to solve. For 2543-700 you would partition 700 into 500 and 200 and then 2543 - 500 = 2043 - 200 = 1843. Alternatively you could count back in steps of one hundred from the minuend.
*Subtract a 4-digit number and thousands including crossing boundaries.	4527- 2000 If the thousands in the second number (subtrahend) can be taken from the first number (minuend) then subtract the thousands 4527-2000=2527 Alternatively you could count back in steps of one thousand from the minuend.
*Subtract a 3-digit multiple of 10 froma 3-digit number.	345-130 If all the digits on the second number (subtrahend) can be subtracted then solve by portioning. For 345-130, you would do 300-100=200, 40-30=10 and 5-0=5then recombine 200+10+5=215 546-270 If all or some of the digits in the subtrahend are more than the minuend then use partitioning to solve. For 546-270, you would partition 270 in 200 and 70 and so 546-200= 346 then subtract 70 to get 276. OR using the counting up method. For 546-270, start with 270, add 30 to get to 300 then add 200 to get to 500 then add 46 to get to 546. Then recombine 30+200+46= 276.
*Subtract a 3-digit multiple of 10 froma 4 or 4-digit number e.g. 4000-340.	Use knowledge of place value and partitioning to solve. Partition 27 into 20 and 7 and subtract each part from 200. 200-20= 180 and useknowledge of number bonds that 10-7= 3 so 180-7= 173. Or use the counting on method to find the difference. If I start with 27 and add 3, I get to 30 then I need to add 70 more to get to 100 then another 100 more to get to 200. I then recombine 3 and 70 and 100 so 200-27=173.
* Subtract a 2/3-digit number from a3/2-digit number, including crossing boundaries.	If the ones and tens can be subtracted without exchange then subtract by partitioning. 237-24 would be 237-20=217 and then subtract 4 = 213. If the ones or tens in the second number (subtrahend) is more than the first number (minuend) then use partitioning to solve. For 242-171 you couldpartition 171 into 100, 70 and 1 first. Then subtract from the minuend. 432-100 = 332 then 332-70 = 262 then 263-1 = 261 so 432-171 = 261 Or use the counting on method to find the difference. If I start with 171 and add 29 I get to 200 then I need to add 200 more to get to 400then another 32 more to get to 432. I then recombine 29 with 200 with 32 to get 261 so 432-171 = 261
*Subtract near multiples of 10, 100 and 100 then adjust.	When subtracting 29 you would subtract 30 (1 more than 29) from the minuend then add 1 because 30 is actually one more than 29. For 543-29, youwould do 543-30=513+1 = 514 When subtracting 299 you would subtract 300 (1 more than 299) from the minuend then add 1 because 300 is actually one more than 299. For 543-299, you would do 543-300=243+1 = 244. When subtracting 3999 you would subtract 4000 (1 more than 3999) from the minuend then add 1 because 4000 is actually one more than 3999. For 5437-3999, you would do 5437-4000=1437+1= 1438

Objective & Strategy	Concrete	Pictorial	Abstract
To subtract numbers withup to 4 digits using a formal written method.	Use base 10 to make the number (minuend) then regroup by exchanging a ten for ten ones, a hundredfor ten tens or a thousands for ten hundreds wherenecessary so that you can subtract the subtrahend. 2754-1568=1186 Step 1: Make the minuend. Step 2: Exchange 1 ten for 10 ones. Step 3: Subtract one hundred,1ten and 7 ones.	Children draw pictorial representations to show the regrouping in order to find the difference. 2754 - 1568= 1186	Formal written method Children use a condensed method of subtraction, including examples with multiples exchanges. 2754–1568 = 1186 2754 1568 1186
To subtract numbers withup to 4 digits using a formal written method, including decimals to two decimal places. To subtract amounts of money to give changeadapted from year 3	Use the place value counters to make the number (minuend) then regroup by exchanging, where necessary: a thousand for ten hundreds, a hundred for ten tens, a ten for ten ones, a one for ten tenthsand ten tenths for a hundredth so that you can subtract. F1.45-28p=f1.17 Step 1: Make the number TH H T O Step 2: Exchange *because you can't subtract 8 from 5. Children will need to exchange 10p for 10x1p. Step 3: Subtract to solve	Children draw pictorial representations to show the regrouping in order to find the difference. £1.45-28p=£1.17 - O Tenths Hundreths 1 4 0.10 + 0.07 = 1.17	Children complete subtractions involving decimals which are presented in word problem format. They use zeros for placeholders and know that decimal points should line up under each other. Bella spends 28p in the shop. She spends £1.45 of her pocket money. How much change will she receive? £1.45 - 28p £1.3×15

Year 5

<u>Key Vocabulary:</u> subtract, take away, difference between, how many are left/ left over? How many are gone? One less, two less, ten less, hundred less. How many fewer is...than...? How much lessis...? tens boundary, hundreds boundary, one boundary, tenths boundary, inverse, minuend, subtrahend, difference.

Counting Fluency: To count backwards and forwards in steps of 2s, 3s, 4s, 5s, 6s, 7s, 8s, 9s, 10s, 11s, 12s, 100s and 1000s from any given starting number.

Mental Strategies

Skill		Strategy Str	
*Subtract a 4/5-digit multiple of100.	5400-3900	For large numbers use knowledge of place value to solve. For 5400-3900, make each number 100 times smaller and do 54-39=15 then make the solution 100 times bigger. 15x100=1500 so 5400-3900=1500. Or use the counting on method. For 5400-3900, start with 3900, add 100 to get to 4000 the another 1000 to get to 5000 then another 400to get to 5400. Next recombine 100+1000+400= 1500 so 5400-3900=1500	
*Subtract near multiples of 10, 100,	2335- <u>58</u>	Subtract the nearest multiple of 10 (60) then <u>add 2</u> because 58 is two more than 60 2335- <u>60</u> = 2275 <u>-+2</u> = 2277	
1000, 10,000 then adjust, including	2345- <u>297</u>	Subtract the nearest multiple of 100 (300) then <u>add 3</u> because 300 is three more than 297 2345- <u>300</u> = 2045+ <u>3</u> = 2048	
crossing boundaries.	5438- <u>3995</u>	Add the nearest multiple of 1000 (4000) then <u>add 5</u> because 4000 is five more than 3995 5438- <u>4000</u> = 1438+ <u>5</u> = 1443	
*Subtract tenths from a 1-digit whole number and tenths.	5.7-0.4	If the tenths in the second number (subtrahend) are smaller than the tenths in the first number (minuend) then subtract the tenths and onesseparately 5.7 - 0.4 = 5.3	
	6.5-0.7	If the tenths in the second number (subtrahend) are larger than the tenths in the first number (minuend) then use your knowledge of numberbonds to partition. For 6.5- 0.7, partition 0.7 into $\underline{0.5}$ and $\underline{0.2}$. Then subtract $\underline{0.5}$ from 6.5 to get 6 then subtract $\underline{0.2}$ = 5.8 so 6.5-0.7= 5.8	
*Subtract two 1-digit whole numbersand tenths.	4.7- 2.5 6. <u>4</u> – 3. <u>7</u>	If the ones and tenths in the second number (subtrahend) are smaller than the ones and tenths in the first number (minuend) then subtract the tenths and ones separately. For 4.7-2.5, subtract the ones 4-2= 2 and then the tenths 0.7-0.5=0.2 then recombine. 4.7-2.5=2.2 If the tenths in the second number (subtrahend) are larger than the tenths in the first number (minuend) use your knowledge of place valueto solve. Make both numbers ten times bigger then calculate 64-37=27. To adjust make your answer 10 times smaller 27 ÷ 10 = 2.7 so 6.4-3.7=2.7	
tenths and hundredths. hundredths, tenths and ones separately. For 0.46-		If the ones, tenths and hundredths in the second number (subtrahend) are smaller than the ones and tenths in the first number (minuend)then subtract the hundredths, tenths and ones separately. For 0.46-0.23 subtract the ones 0-0=0, subtract the tenths 0.4-0.2=0.2 then subtract the hundredths 0.06-0.03=0.03 then recombine 0+0.2+0.03=0.23	
	0.76-0.59	If the tenths/ hundredths in the second number (subtrahend) are larger than the tenths/ hundredths in the first number (minuend) use yourknowledge of place value to solve. Make both numbers 100 times bigger then calculate $76-59=17$ To adjust make your answer 100 times so $0.76-0.59=0.17$	
*Subtract a 1-digit whole numberand tenths from a whole number.	8-5.6	Use the counting on method to find the difference. If I start with 5.6 and <u>add 0.4</u> , I get to 6 then I need to <u>add 2</u> more to get to 8. I then recombine 0.4 and 2 so 8-5.6=2.4	

Year 5 Calculation Methods

Objective &	Concrete	Pictorial	Abstract
To subtract numbers with more than 4 digits.	Use the place value counters to make the number (minuend) then regroup by exchanging, where necessary: a thousand for ten hundreds, a hundred for ten tens, a ten for ten ones, a one for ten tenths and ten tenths for ahundredth so that you can subtract.	Children draw pictorial representations toshow the regrouping in order to find how many are left. 31056 – 2128 = 28,928	Formal written method Children use a condensed method of subtractionincluding those with different numbers of digits. 31056 – 2128 = 28,928
	31056 — 2128 = 28,928 hundred ten thousands thousands hundreds tens ones	TTH TH H T O 20,000 19000 1900 + 900 + 20 + 8 = 28,928	2 1 2 8 2 8,9 2 8
To solve problems involving measure using decimal notation up to three decimal places.	Use the place value counters to make the number then regroup by exchanging, where necessary: a thousand for ten hundreds, a hundred forten tens, a ten for ten ones, a one for ten tenths, a hundredths for ten tenths and a thousandth for ten hundredths. 105.419kg – 36.080kg	Children draw pictorial representations toshow the regrouping in order to find the difference. 105.419kg – 36.080kg	Formal written method Children complete subtractions involving decimals which are presented in word problem format. They usezeros for place holders and know that decimal points should line up under each other. 105.419kg – 36.080kg
	Step one- Make the number. Step 2- Exchange. hundreds tens ones tenths hundredths thousandths Step 3- Subtract to solve	60 + 9 + 0.3 + 0.03 + 0.009 = 69.339	1/10/5 · 3/4 / 1 9 kg - 36 · 08 0 kg 69 · 33 9 kg
	Step 3- Subtract to solve.		

Year 6

<u>Key Vocabulary:</u> subtract, take away, difference between, how many are left/ left over? How many are gone?, one less, two less, ten less, hundred less. How many fewer is...than...? How much lessis...? tens boundary, hundreds boundary, one boundary, tenths boundary, inverse, minuend, subtrahend, difference.

Counting Fluency: To consolidate counting backwards and forwards in steps of 2s, 3s, 4s, 5s, 6s, 7s, 8s, 9s, 10s, 11s, 12s, 100s, 1000s and 10,000s from any starting number.

Mental Strategies

Skill	Strategy				
Reconsolidate all strategies from Y4 and 5.					
*Subtract large numbers.		For large numbers use partitioning to solve. For 53,765-3330, partition the subtrahend into 3000 and 300 and 30 and subtracteach part. 53,765-3000=50,765 then subtract 300 = 50, 465 the subtract 30= 50,435			
*Subtract near multiples of 0.01, 0.1, 10, 100, 1000 then adjust, including crossing boundaries.		Subtract the nearest whole number (4) then <u>add 0.2</u> because 4 is actually 0.2 more than 3.8 so 6.7 <u>-4</u> =2.7 <u>+0.2</u> = 2.9 Subtract the nearest whole number (3) then <u>add 0.04</u> because 3 is actually 0.04 more than 2.96 so 4.92-3= 1.92+0.04= 1.96			
*Subtract decimals with different numbersof places.	0	Subtract by partitioning using your knowledge of place value. First subtract the ones $0 - \underline{0} = \underline{0}$, then the tenths $0.4 - 0.\underline{3} = 0.\underline{1}$ then the hundredths $0.05-0.0\underline{0}=0.05$. Then recombine $0+0.1+0.05=0.15$ or use knowledge of place value to solve. Make each number $\underline{100}$ times bigger and subtract. $45-30=15$ then make the solution $\underline{100}$ times smaller. $\underline{15}\div100=1.5$ so $0.45-0.3=1.5$			
*Subtract any number with up to three decimal places from a whole number.	14-0.432 Us	Use the counting on method and knowledge of place value to find the difference. If I start with 0.34 and add 0.66, I get to 1 then Ineed to add 3 more to et to 4. I then recombine 0.66 and 3 so 4-0.34=3.66 Use the counting on method and knowledge of place value to find the difference. If I start with 0.432 and add 0.568, I get to 1 thenneed to add 13 more to get to 14. I then recombine 0.568 and 13 so 14-0.432=13.568			

Year 6 Calculation Methods

Objective &	Concrete	Pictorial	Abstract
To subtract numbers with increasingly large and complex numbers.	Use the place value counters to make the number (minuend) then regroup by exchanging, where necessary: a thousand for ten hundreds, a hundred for ten tens, a ten for ten ones, a one for ten tenths and ten tenths for a hundredth so that you can subtract. 31056 – 2128 = 28,928 Step 1- Make the number Step 3- Subtract to solve.	Children draw pictorial representations to show the regrouping in order to find how many are left. 31056 – 2128 = 28,928 TTH TH H TO THE TO THE TO THE	Formal written method Children use a condensed method of subtractionincluding those with different numbers of digits. 31056 – 2128 = 28,928 2
To solve problems involving the conversion of units of measure, using decimal notationup to 3 decimal places.	Use the place value counters to make the number then regroup by exchanging, where necessary: a thousand for ten hundreds, a hundred forten tens, a ten for ten ones, a one for ten tenths, a hundredths for ten tenths and a thousandth for ten hundredths. 105.419 kg - 36080g As this is a mixed measure problem, children wouldfirst convert so they are working with the same unit. 105.419kg - 36.080kg hundreds tens ones tenths hundredths housandths Step one- Make the number. Step 2- Exchange. Step 3- Subtract to solve.	Children draw pictorial representations to show the regrouping in order to find the difference. 105.419kg – 36.080kg H T O L H H H H H H H H H H H H H H H H H H	Formal written method Children complete subtractions involving decimals which are presented in word problem format. They usezeros for place holders and know that decimal points should line up under each other. They convert measures so that they are working with the same unit. 105.419 kg - 36080g would convert into 105.419kg - 36.080kg 11 9 kg 13 6 0 8 0 kg 16 9 1 3 3 9 kg