

Foundation Stage

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	
	Use physical objects to find the solution by taking away one object from the whole.	Can you find one less than the number?	
To find one less than a number.	Can you find one less than the number?	Modelled on a number line Circle the biggest number in the number sentenc one on the number line to find the solution.	
		One less than 7	
	Can you find can you find one less?	0 1 2 3 4 5 6 7 8	
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 sentering on the number line to find the solution 	
		6-3=3	







Cottingham Cof E Primary School Calculation Policy- Subtraction

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.	Number line Circle the biggest number (minuend) in the number sentence and count back one (subtrahend) on the number line to find the solution (difference). 16-1	Record as a written calculation. 16-1=15
To find ten less than a number.	Modelled using Base 10 Ten less than 35 Step 1- Make the number (minuend) using base 10 or concrete resources. Step 2- Take 10 (subtrahend) away. Step 3- Calculate the final answer by counting how many are left (difference).	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	35 – 10 = 25
Subtract two single digit	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 from the whole.	Modelled on a number line Circle the biggest number (minuend) in the number sentence and count back in ones (subtrahend) on the number line to find the solution (difference).	Record as a written calculation. 6 - 3 = 3
numbers.		6-3=3	
To find the difference between two numbers	Children begin to compare amounts by representing with objects. 7 'Seven is 3 more than four' 4 'I am 2 years older than my sister'	<u>Number line- counting on</u> Find the difference by counting on from the smaller number (subtrahend) to the bigger number (minuend).	Children apply to word problems. Hannah has 12 sweets and her sister has 5 sweets. How many more sweets does Hannah have than her sister?





	Children use objects to	11 - 5 = 6	
	the bar model.	+6 +6 0 1 2 3 4 5 6 7 8 9 10 11 12	
To subtract one digit and two digits numbers to 20, including zero	Use a range of phsical objects (counters, bead strings) and find a solution (difference) by removing several objects from the group (minuend), counting backwards. 15 - 3 = 12 Use of physical objects to subtract numbers using the part whole model to model. 10 - 6 = 4 15 - 0 = 15	15 - 3 = 12 Children represent pictorially by drawing objects and crossing out to show what has been taken away. Number line- counting back Circle the biggest number (minuend) in the number sentence and count back in ones on the number line to find the difference. 15-3 = 12 0 1 2 3 4 5 6 7 8 9 1011 (2)1314 (5) 6 17 18 19 20 Bar Use the bar model to represent the model pictorially. 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 3 = ? 15 - 0	
To subtract ones from 10 or 20	Modelled using uni-fix cubes 10 - 3 = 7	Modelled using the tens frame Using a tens frame or pictorial representations, children will count out 10 or 20 counters/pictorial representations and either take them away or cross them out.	
	Step 1- Make the bigger number (minuend). (subtrahend).		











Cottingham Cof E Primary School Calculation Policy- Subtraction

Key Vocabulary: 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 less is...? tens boundary, minuend, subtrahend, difference.

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

Mental strategies

Skill			Stra	itegy
To subtract 9 to a 2-digit number by adjusting.	54-9	Make the number with base ten equipment, then subtract 10. without equipment. For 54-9 you would first subtract 10	You then need to add 1 54-10 = 44 then add 1	because 9 is actually one less than 10. Chi , 44+1=45 so 54-9=45.

Year 2 Calculation Methods

Objective & Strategy	Concrete	Pictorial	
To regroup a ten in to ten ones.	Use base 10 to show how to exchange a ten into ten ones in 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 been taken away. 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 $34-9=25$ 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 45-20=25 $1 \frac{2}{2} \frac{3}{4} \frac{4}{5} \frac{5}{6} \frac{7}{7} \frac{8}{8} \frac{9}{10} \frac{10}{11} \frac{12}{12} \frac{13}{14} \frac{15}{15} \frac{16}{17} \frac{7}{18} \frac{19}{19} \frac{20}{20} \frac{21}{22} \frac{22}{23} \frac{24}{25} \frac{25}{25} \frac{27}{26} \frac{29}{29} \frac{30}{30} \frac{31}{32} \frac{33}{34} \frac{45}{35} \frac{5}{6} \frac{37}{38} \frac{39}{40} \frac{41}{41} \frac{42}{43} \frac{44}{45} \frac{45}{46} \frac{47}{47} \frac{48}{49} \frac{49}{50} \frac{50}{13} \frac{12}{12} \frac{3}{25} \frac{4}{5} \frac{5}{5} \frac{5}{27} \frac{28}{29} \frac{29}{30} \frac{39}{31} \frac{39}{40} \frac{41}{41} \frac{42}{43} \frac{44}{45} \frac{45}{46} \frac{47}{47} \frac{48}{49} \frac{49}{50} \frac{50}{15} \frac{12}{12} \frac{5}{25} \frac{5}{5} \frac{27}{28} \frac{29}{29} \frac{30}{30} \frac{31}{31} \frac{32}{33} \frac{33}{4} \frac{35}{35} \frac{35}{46} \frac{37}{78} \frac{89}{9} \frac{90}{40} \frac{41}{44} \frac{42}{43} \frac{44}{45} \frac{45}{46} \frac{47}{47} \frac{48}{49} \frac{49}{50} \frac{50}{15} \frac{5}{15} \frac{25}{25} \frac{5}{25} \frac$	Use of a writt Record by dra up from the s number. Child then the rest. 34 - 9 = 25 45 - 20 = 2 45 - 20 = 2 93 - 76 = 1 76 77 78



Idren will begin to do this mentally

Abstract

Record as a written calculation.

20-4=16

en method

rawing their own number line. Children count smallest (subtrahend) to largest (minuend) dren would first count on to the next ten and

To use partitioning to subtract two digit numbers.	Use base 10 to make the nu ones then the tens to find th 43 – 21 = 22	umber (minuend). Take away the ne difference.	Children draw picto ones then the tens. 43-21 = 22		and cross off the	Formal Writte Partition each (subtrahend) the ones. 43- 21 = 22
To use partitioning to subtract two digit numbers with regrouping.	Use base 10 to make the nu by exchanging a ten for ten you can subtract the subtral 45-29= 16	umber (minuend) then regroup ones where necessary so that hend.	Children draw picto regrouping in order 45 - 29 = 16	45 - 29 - Tens - 29 - 29 - 16 - 29 - 29 - 29 - 20 - 20 - 20 - 20 - 20 - 20 - 20 - 20	to show the e left.	Formal Writte Partition each (subtrahend) the ones. Exc the solution. 45 – 29 = 16
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 take away the number of tens (subtrahend) required and regroup to find the difference.	Modelled using pi 80 – 30 = 50 Children would out how many they are subtracting find the difference.	g and count how mar	ons of Base 10 cross tens ny they have left to	
To subtract tens from a 2-digit number	Modelled using Base 10 58 – 20 = 28 Use Base 10 to make the number of tens (st to find the difference.	umber (minuend). Then take ubtrahend) required and regroup	Modelled using 58 – 20 = 28 Children would out how many ter many they	pictorial representa	tions of Base 10	

en Method

h number then subtract the bottom number) from the top number (minuend), starting with

$$43 = 40 + 3$$

$$\frac{21 = 20 + 1}{20 + 2} = 22$$

en Method

h number then subtract the bottom number) from the top number (minuend), starting with change tens for ones then recombine to find

$$45 = \frac{30}{40} + \frac{15}{5}$$

$$29 = 20 + 9$$

$$10 + 6 = 16$$

Record as a written calculation.

80 - 30 = 50

Record as a written calculation.

Record as a written calculation.

$$10 - 30 = 70.$$

Record as a written calculation.

54 - 9 = 45

<u>Year 3</u>

Key Vocabulary: 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 less is...? 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.	 345-3 If the ones in the second number (subtrahend) can be taken from the first number (minuend) then subtract the ones only 3 432-8 If the ones in the subtrahend are more than the minuend then use partitioning to solve. For 432-8 you would partition 8 432 - 2 = 430-6 = 424.
*Subtract a 3- digit number and tens including crossing boundaries.	 554-40 54-40 543-70 If the tens in the second number (subtrahend) can be taken from the first number (minuend) then subtract the tens 554-4 543-70 If the tens in the subtrahend are more than the minuend then use partitioning to solve. For 543-70 you would partition 70 then 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>54-400 If the hundreds in the second number (subtrahend) can be taken from the first number (minuend) then subtract the hundred Alternatively 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. $10-\underline{3}=7$ so $40-7=3\underline{3}$ then add on the 300. $340-\underline{7}=33\underline{3}$
* Subtract a 2-digit number from a multiple of 10 including crossing boundaries	90-27 Use knowledge of place value and partitioning to solve. Partition 27 into 20 and 7 and subtract each part from 90. 90-20= knowledge 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 90-27= 63
Subtract a 2-digit number from a 2-digit number, including crossing boundaries.	 56-32 If the ones and tens can be subtracted without exchange then subtract by partitioning. 56-32 would be 50-30 = <u>20</u> and 6 - recombine 20 and 4 to make <u>24</u> so 56-32=24. 45-27 If the ones in the second number (subtrahend) is more than the first number (minuend) then use partitioning to solve. For partition 27 into <u>20</u> and <u>7</u> first. Then subtract from the minuend. 45<u>-20</u>= 25 then 25<u>-7</u>=18 so 45-27=18 Or use the counting on method to find the difference. If I start with 27 and add <u>3</u> I get to 30 then I need to add <u>10</u> more to then another <u>5</u> more to get to 45. I then recombine <u>3</u> with <u>10</u> with <u>5</u> so 45-27= 18
*Subtract near multiples of 10 and 100 and adjust .	 43-9 When subtracting 9 you would <u>subtract 10</u> (1 more than 9) from the minuend then <u>add 1</u> because 10 is actually one more the 43-<u>10</u>=33 <u>+1</u> = 44. 543- <u>99</u> When subtracting 99 you would <u>subtract 100</u> (1 more than 99) from the minuend then <u>add 1</u> because 100 is actually one more the do 543-<u>100</u>=443 +1 = 444.

34<u>5-3</u>= 34<u>2</u>. into 2 and 6 then <u>4</u>0= 5<u>1</u>4) into $\overline{40}$ and 30 and lreds <u>7</u>54-<u>4</u>00= <u>3</u>54 70 and use get to 90 so - 2 = <u>4</u> then 45-27 you could get to 40 nan 9. For 43-9, you would do nore than 99. For 543-99, you would

Year 3 Calculation Methods

panded method) per then subtract the bottom number top number (subtrahend), starting with the				
356 -	133= 2	23		
	356 =	300 +	50 + 6	5
	133=	100 + 3	30 + 3	_
- 22		200+	20 +3	3 = 223
<u>:hod</u> d) se a ar method	of	43 <u>21</u> 22	-	365 <u>133</u> 232
<u>panded)</u> ber then su h the ones ne solution	ıbtract ti . Exchai	he bottor nge tens	n numb for one	er from s then
435-117	′=318			
4	35 = 40	20 00 + 30 +	1 <u>5</u> + 5	
1	17 = 10	00 + 10 +	- 7	
- د	3	00+10+	g =31	8
Formal	Written	Method	<u>(</u> conde	nsed
se a conde change in c	nsed co one colu	olumnar r ımn.	nethod	of
2 4 3 5				
<u>117</u> 18				
hod				

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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.	3345-3 $2432-8$ If the ones in the second number (subtrahend) can be taken from the first number (minuend) then subtract the ones only $3345-3=3342$. 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 then $2432-2=430-6=2424$.
*Subtract a 4- digit number and tens including crossing boundaries.	5554-40 2543-70If the tens in the second number (subtrahend) can be taken from the first number (minuend) then subtract the tens 5554-40= 5514 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 and then 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 2543-700 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.	<u>4527-</u> <u>2000</u> If the thousands in the second number (subtrahend) can be taken from the first number (minuend) then subtract the thousands <u>4527-2000=2527</u> Alternatively you could count back in steps of one thousand from the minuend.
*Subtract a 3-digit multiple of 10 from a 3- digit number.	 345-130 If all the digits on the second number (subtrahend) can be subtracted then solve by portioning. For 345-<u>130</u>, you would do 300<u>-100</u>=200, 40<u>-30</u>=10 and 5<u>-0</u>=5 then 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 <u>200</u> and <u>70</u> and so 546<u>-200</u>= 346 then <u>subtract 70</u> to get 276. OR using the counting up method. For 546-270, start with 270, <u>add 30</u> to get to 300 then <u>add 200</u> to get to 500 then <u>add 46</u> to get to 546. Then recombine <u>30+200+46= 276</u>
*Subtract a 3-digit multiple of 10 from a 4 or 4-digit number e.g. 4000-340.	 200-27 Use knowledge of place value and partitioning to solve. Partition 27 into <u>20</u> and <u>7</u> and subtract each part from 200. 200-<u>20</u>= 180 and use knowledge of number bonds that 10-7= 3 so 180-<u>7</u>= 173. Or use the counting on method to find the difference. If I start with 27 and <u>add 3</u>, I get to 30 then I need to <u>add 70</u> more to get to 100 then another <u>100</u> more to get to 200. I then recombine 3 and 70 and 100 so 200-27=173.
* Subtract a 2/3-digit number from a 3/2- digit number, including crossing boundaries.	 237-24 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. 432-171 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 could partition 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 400 then 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.	 543-29 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, you would do 543-30=513+1 = 514 543-299 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. 5437-3999 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	
To subtract numbers with up to 4 digits using a formal	Use base 10 to make the number (minuend) then regroup by exchanging a ten for ten ones, a hundred for ten tens or a thousands for ten hundreds where necessary so that you can subtract the subtrahend.	Children draw pictorial representations to show the regrouping in order to find the difference. 2754 - 1568= 1186	Formal written metho Children use a cond examples with multip
written method.	2754-1568=1186 thousands hundreds tens ones Step 1: Make the minuend. thousands hundreds tens ones Step 2: Exchange 1 ten for 10 ones.	TH H T O H	2754 - 1568 = 17
	thousands hundreds tens ones • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • •		<u>156</u> 8
To subtract numbers with up to 4 digits using a formal written method, including decimals to two decimal places	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.	Children draw pictorial representations to show the regrouping in order to find the difference. £1.45-28p=£1.17 -	Formal written metho Children complete su presented in word pr holders and know th other
To subtract amounts of money to give change- adapted from year 3	£1.45-28p=£1.17 Step 1: Make the number ones tenths Image: Step 1 in the step 1 in t	O Tenths Hundreths	Bella spends 28p ir She spends £1.45 c will she receive?
	Step 2: Exchange *because you can't subtract 8 from 5. Children will need to exchange 10p for 10x1p.		
	Step 3: Subtract to solve	140.10+0.0/= 1.17	

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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 4/5-digit multiple of 100.	5400-3900	For large numbers use knowledge of place value to solve. For 5400-3900, make each numb solution <u>100 times bigger</u> . 15x100=1500 so 5400-3900=1500.	er <u>100 times</u>
		Or use the counting on method. For 5400-3900, start with 3900, add 100 to get to 4000 the to get to 5400. Next recombine 100+1000+400- 1500 so 5400-3900-1500	another 100
*Subtract near multiples of 10, 100,	2335- <u>58</u>	Subtract the nearest multiple of 10 (60) then add 2 because 58 is two more than 60	2335- <u>60</u> =
1000, 10,000 then adjust, including	2345- <u>297</u>	Subtract the nearest multiple of 100 (300) then add 3 because 300 is three more than 297	2345- <u>300</u> =
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> =
*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 numbe separately 5.7 - 0.4 = 5.3	r (minuend) t
	6.5-0.7	If the tenths in the second number (subtrahend) are larger than the tenths in the first number (bonds to partition. For 6.5- 0.7, partition 0.7 into <u>0.5</u> and <u>0.2</u> . Then subtract <u>0.5</u> from 6.5 to g	minuend) the et 6 then sub
*Subtract two 1-digit whole numbers and tenths.	4.7- 2.5	If the ones and tenths in the second number (subtrahend) are smaller than the ones and tenth the tenths and ones separately. For 4.7-2.5, subtract the ones $4-2=2$ and then the tenths 0.	ns in the first 7-0.5= <u>0.2 t</u> he
	6. <u>4</u> – 3. <u>7</u>	If the tenths in the second number (subtrahend) are larger than the tenths in the first number to solve. Make both numbers ten times bigger then calculate 64-37= 27. To adjust make ye 6.4-3.7= 2.7	(minuend) us our answer <u>1</u>
*Subtract 2-digit numbers with tenths and hundredths.	0.46-0.23	If the ones, tenths and hundredths in the second number (subtrahend) are smaller than the or then subtract the hundredths, tenths and ones separately. For 0.46-0.23 subtract the ones 0 subtract the hundredths 0.06-0.03=0.03 then recombine 0+0.2+0.03= 0.23	nes and tenth -0= <u>0</u> , subtrac
	0.76-0.59	If the tenths/ hundredths in the second number (subtrahend) are larger than the tenths/ hundr knowledge of place value to solve. Make both numbers 100 times bigger then calculate 76- smaller 17 ÷ 100 = 0.17 so 0.76-0.59=0.17	edths in the f 59=17 To adj
*Subtract a 1-digit whole number and tenths from a whole number.	8-5.6	Use the counting on method to find the difference. If I start with 5.6 and add 0.4, I get to 6 then I then recombine 0.4 and 2 so 8-5.6=2.4	I need to ad

smaller and do 54-39=15 then make the

0 to get to 5000 then another 400

2275<u>-+2</u>= 2277 = 2045+<u>3</u>= 2048 = 1438+<u>5</u>= 1443

then subtract the tenths and ones

en use your knowledge of number otract 0.2 = 5.8 so 6.5-0.7 = 5.8

number (minuend) then subtract en recombine. 4.7-2.5=2.2 se your knowledge of place value <u>0 times smaller 27</u> \div 10 = 2.7 so

ns in the first number (minuend) ct the tenths 0.4-0.2=<u>0.2</u> then

first number (minuend) use your just make your answer <u>100 times</u>

d 2 more to get to 8.

Year 5 Calculation Methods

Objective & Strategy	Concrete	Pictorial	
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 a hundredth so that you can subtract.	Children draw pictorial representations to show the regrouping in order to find how many are left.	Formal writte Children use those with dif
	31056 - 2128 = 28,928 hundred ten ones thousands thousands hundreds tens 0000000 0000000 Step 1- Make the number. ten thousands hundreds tens thousands thousands hundreds tens ten 000000000000000000000000000000000000	TTH TH H T O $00^{1000} + 900 + 20 + 8 = 28,928$	² 3 - 2
	ten thousands thousands hundreds tens ones		
To solve problems involving measure using decimal notation up to three decimal	Use the place value counters to make the number 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, a hundredths for ten tenths and a thousandth for ten hundredths. 105.419kg – 36.080kg	Children draw pictorial representations to show the regrouping in order to find the difference. 105.419kg – 36.080kg	Formal writte Children com are presente place holders under each c
places.	hundreds tens ones tenths hundredths housandths Image: Step one- Make the number. Step 2- Exchange.	HTO.thth	105.419kg –
	hundreds tens ones tenths hundredths thousandths	60 + 9 + 0.3 + 0.03 + 0.099 = 69.339	

Abstract

en method

a condensed method of subtraction including ifferent numbers of digits.

28 = 28,928

en method

nplete subtractions involving decimals which ad in word problem format. They use zeros for is and know that decimal points should line up other.

- 36.080kg

Cottingham Cof E Primary School Calculation Policy- Subtraction

Key Vocabulary: 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 less is...? 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.	53,765-3330 For large numbers use partitioning to solve. For 53,765-3330, partition the subtrahend into 3000 and 300 and 30 and subtract each 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.	6.7 - 3.8Subtract the nearest whole number (4) then $add 0.2$ because 4 is actually 0.2 more than 3.8 so $6.7 - 4 = 2.7 + 0.2 = 2.9$ 4.92- 2.96Subtract the nearest whole number (3) then $add 0.04$ because 3 is actually 0.04 more than 2.96 so $4.92-3 = 1.92+0.04 = 1.96$
*Subtract decimals with different numbers of places.	0.45-0.3 Subtract by partitioning using your knowledge of place value. First subtract the ones $0 - 0 = 0$, then the tenths $0.4 - 0.3 = 0.1$ then the hundredths $0.05-0.00=0.05$ Then recombine $0 + 0.1 + 0.05= 0.15$ or use knowledge of place value to solve. Make each number <u>100 times bigger</u> and subtract. 45-30=15 then make the solution <u>times smaller</u> . 15÷100=1.5 so 0.45-0.3=1.5
*Subtract any number with up to three decimal places from a whole number.	 4-0.34 Use the counting on method and knowledge of place value to find the difference. If I start with 0.34 and <u>add 0.66</u>, I get to 1 then need to <u>add 3</u> more to get to 4. I then recombine 0.66 and 3 so 4-0.34=3.66 14-0.432 Use the counting on method and knowledge of place value to find the difference. If I start with 0.432 and <u>add 0.568</u>, I get to 1 then need to <u>add 13</u> more to get to 14. I then recombine 0.568 and 13 so 14-0.432=13.568

Year 6 Calculation Methods

Objective & Strategy	Concrete	Pictorial	
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 <u>hundred</u> tens ones <u>hundreds</u> tens ones <u>Step 1- Make the number</u> Step 2- Exchange.	Children draw pictorial representations to show the regrouping in order to find how many are left. 31056 – 2128 = 28,928 TTH TH H T O O O O O O O O O O 	Formal writte Children use including tho 31056 – 212

<u>100</u>

Abstract

en method a condensed method of subtraction ose with different numbers of digits.

28 = 28,928

	ten thousands thousands hundreds tens ones Step 3- Subtract to solve.		2 - 2 2
To solve	Use the place value counters to make the number 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, a hundredths for ten tenths and a thousandth for ten hundredths. 105.419 kg - 36080g As this is a mixed measure problem, children would first convert so they are working with the same unit. 105.419kg - 36.080kg <u>hundreds</u> tens ones tenths hundredths for ten number. <u>hundreds</u> tens ones tenths for tenths for ten number. <u>hundreds</u> tens ones tenths for tenths for tenths for tenths for tenths for ten number. <u>hundreds</u> tens ones tenths for tenths	Children draw pictorial representations to	Formal writt
problems		show the regrouping in order to find the	Children cor
involving the		difference.	are presente
conversion of		105.419kg – 36.080kg	place holder
units of measure,		H T O L h h	under each
using decimal		0 L h h	are working
notation up to 3		0 + 9 + 0.3 + 0.03 + 0.099	105.419 kg
decimal places.		= 69.339	105.419kg -

