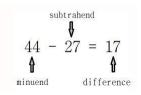
### Foundation Stage

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	Abstract
To find one less than a number.	Use physical objects to find the solution by taking away one object from the whole. Can you find one less than the number?	Can you find one less than the number? <u>Modelled on a number line</u> Circle the biggest number in the number sentence and count back one on the number line to find the solution. One less than 7 0 1 2 3 4 5 6 7 8 9 10 1 1 2 3 4 5 6 7 8 9 10	Record as a writter 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 6 - 3 = 3 6 - 3 = 0 6 - 3 = 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Modelled on a number line Circle the biggest number in the number sentence and count back in ones on the number line to find the solution. 6-3=3 $1 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 +$	Record as a written calculation. 6 - 3 = 3

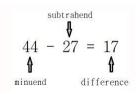


### <u>Year 1</u>

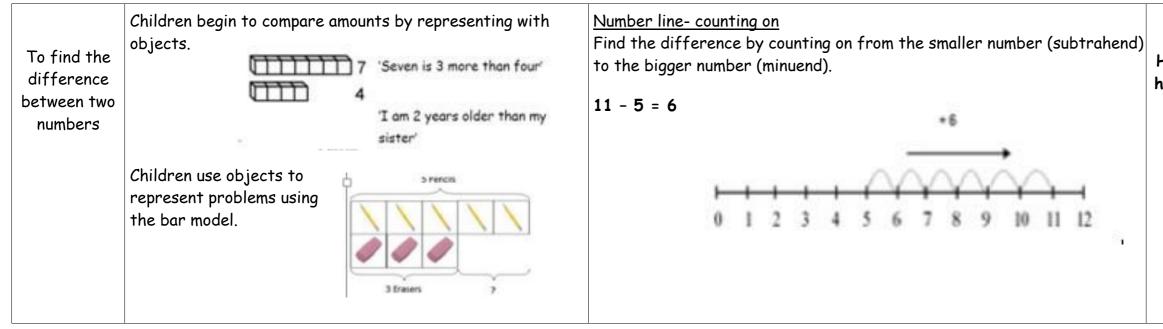
Key Vocabulary: subtract, take away, difference between, how many are left/ left over? How many are gone? One less, two less, ten less. How many fewer is...than...? How much less is...? minuend, subtrahend, difference.

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

Objective & Strategy	Concrete	Pictorial
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 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
To find ten	Modelled using Base 10	
less than a number.	Ten less than 35Step 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).	<ul> <li> <sup>1</sup> <sup>2</sup> <sup>3</sup> <sup>4</sup> <sup>5</sup> <sup>6</sup> <sup>7</sup> <sup>8</sup> <sup>9</sup> <sup>10</sup> <sup>11</sup> <sup>12</sup> <sup>13</sup> <sup>14</sup> <sup>15</sup> <sup>16</sup> <sup>17</sup> <sup>18</sup> <sup>19</sup> <sup>20</sup> <sup>21</sup> <sup>22</sup> <sup>23</sup> <sup>24</sup> <sup>25</sup> <sup>26</sup> <sup>27</sup> <sup>28</sup> <sup>29</sup> <sup>30</sup> <sup>31</sup> <sup>32</sup> <sup>33</sup> <sup>34</sup> <sup>35</sup> <sup>36</sup> <sup>37</sup> <sup>38</sup> <sup>39</sup> <sup>40</sup> <sup>41</sup> <sup>42</sup> <sup>43</sup> <sup>44</sup> <sup>45</sup> <sup>46</sup> <sup>47</sup> <sup>48</sup> <sup>49</sup> <sup>50</sup> <sup>51</sup> <sup>52</sup> <sup>53</sup> <sup>54</sup> <sup>55</sup> <sup>56</sup> <sup>57</sup> <sup>58</sup> <sup>59</sup> <sup>60</sup> <sup>60</sup> <sup>70</sup> <sup>89</sup> <sup>9100</sup> <sup>1000</sup> <sup>8000</sup> <sup>8000</sup> <sup>8000</sup> <sup>8000</sup> <sup>8000</sup> <sup>8000</sup> <sup>80000</sup> <sup>80000</sup> <sup>800000000000000000000000000000</sup></li></ul>
Subtract two single	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.	<u>Modelled on a number line</u> Circle the biggest number (minuend) in the number sentence and count back in ones (subtrahend) on the number line to find the solution (difference).
digit numbers.		6-3=3



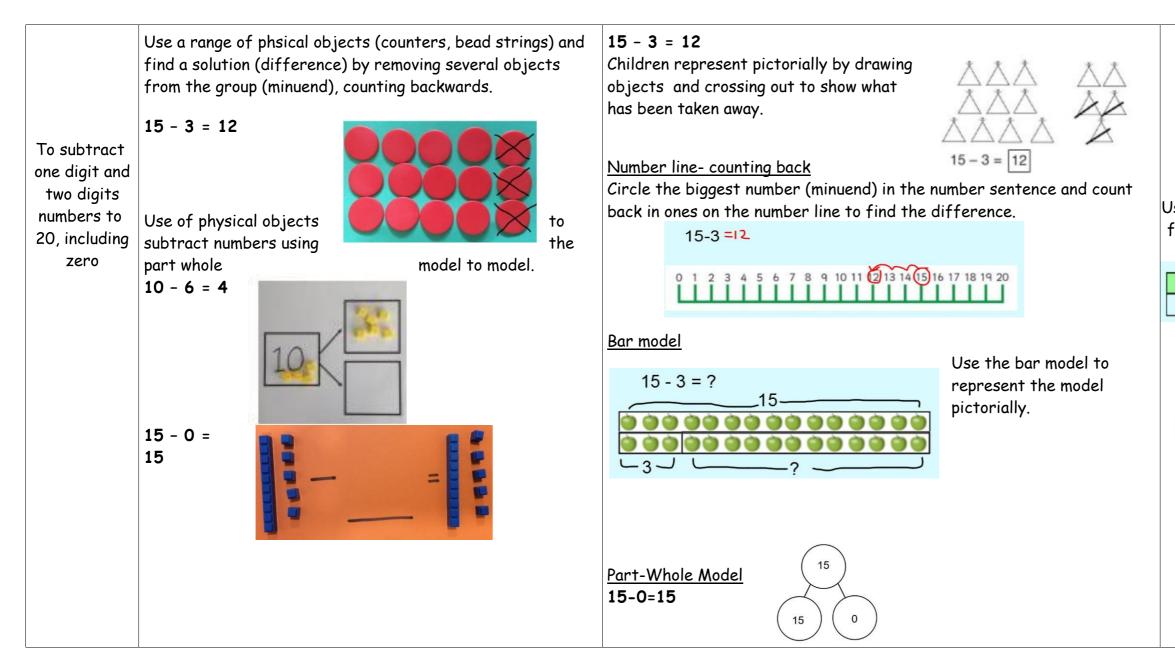
Abstract Record as a written calculation. 16-1=15 35 - 10 = 25 Record as a written calculation. 6 - 3 = 3

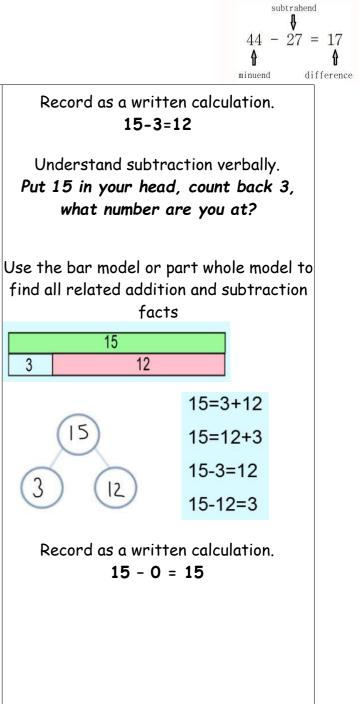


subtrahend 44 - 27 = 17A difference minuend

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?





To subtract ones from 10 or 20



**Step 1** - Make the bigger number (minuend).

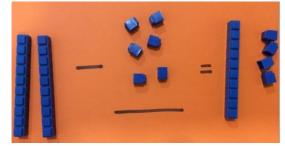
Step 2- take away the smaller number (subtrahend).



**Step 3-** count how many are left to find out the difference.

### Modelled using Base 10

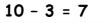
### 20-6= 14

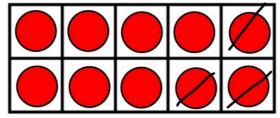


Make the number sentence using Base 10. To find the difference, exchange one ten for 10 ones and subtract the smaller number (subtrahend). Add up how much is left to find the difference.

### Modelled using the tens frame

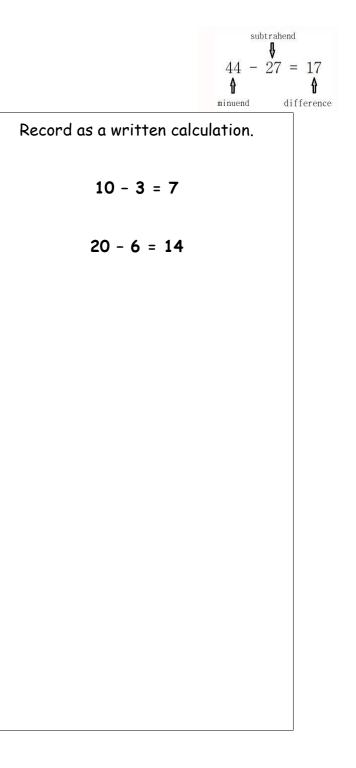
Using a tens frame or pictorial representations, children will count out 10 or 20 counters/pictorial representations and either take them away or cross them out.





Modelled using a pixctorial representation





### Year 2

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.

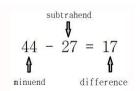
Counting fluency: To count forwards and backwards in steps of 2s, 3s, 4s, 5s and 10s.

### Mental strategies

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

### Objective & Pictorial Concrete Strategy Use base 10 to show how to exchange a ten into ten ones Children represent pictorially by drawing objects in To regroup a ten in in order to groups of ten and crossing out to show what has been to ten ones. subtract the taken away. 20 - 4 = 16ones. 20 - 4 = 16Use the base ten to represent the numbers (minuend) Modelled using a number line or 100 square Use of a written method To subtract numbers then use knowledge of exchanging tens for ten ones to Count back from largest (minuend) to smallest using objects, pictures and subtract the subtrahend. (subtrahend) number to find the difference. 34-9=25 mentally including: 34-9= 25 and then the rest. 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 -a 2-digit number and 34 - 9 = 25ones 45-20= -a 2-digit number and 4 5 6 7 8 9 10 45-20=25 25 11 12 13 14 15 16 17 18 19 20 10 9 tens 21 22 23 24 25 26 27 28 29 30 -two 2-digit numbers 45 - 20= 25 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 3 4 5 6 7 - 8 93-76= 17 11 12 13 14 15 16 17 18 93-76=17 +10 30 20 35 36 37 38 39 40 44 45 46 47 48 49 5 93-76=17 54 55 36 57 58 59 60 65 66 67 68 69 70 75 76 77 78 79 80 85 86 87 88 89 90 93 94 95 96 97 98 99 100 76 77 78 79

### Year 2 Calculation Methods



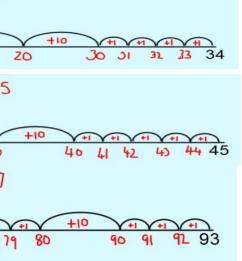
10. Children will begin to do this mentally

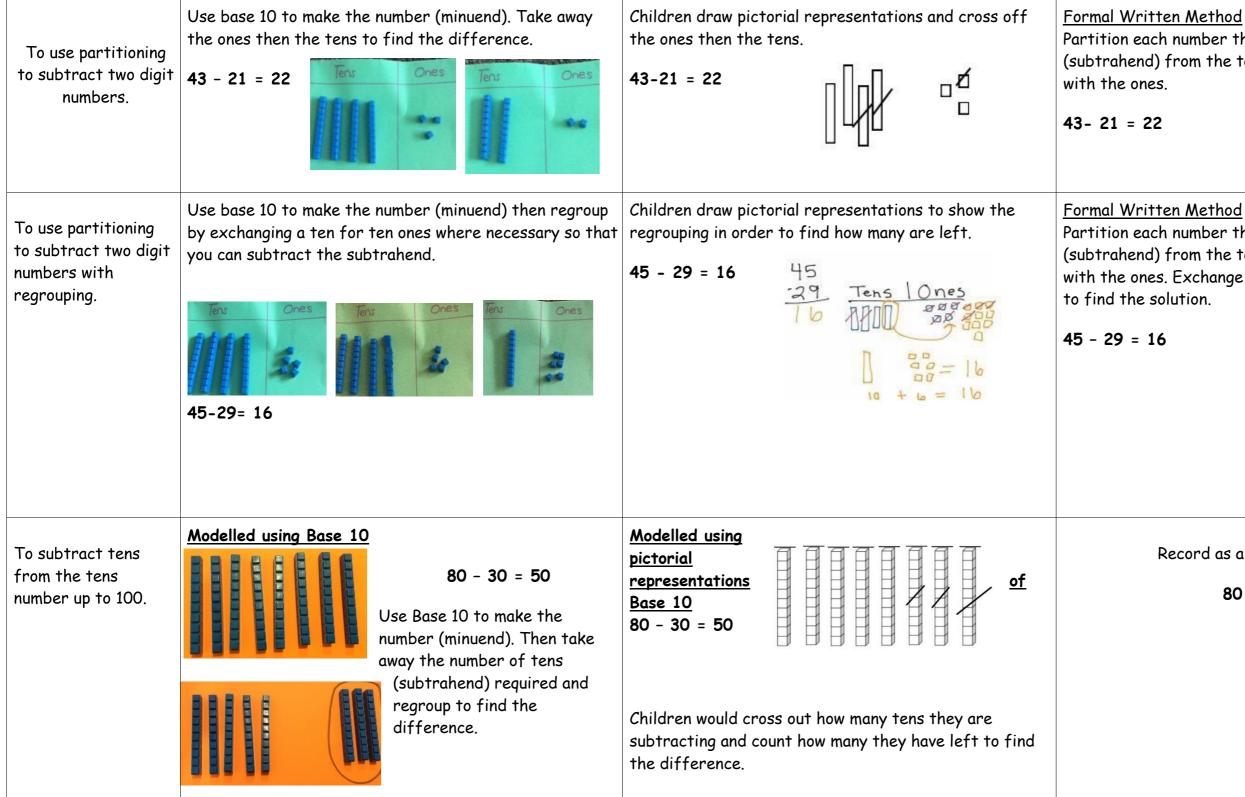
Abstract

Record as a written calculation.

20-4=16

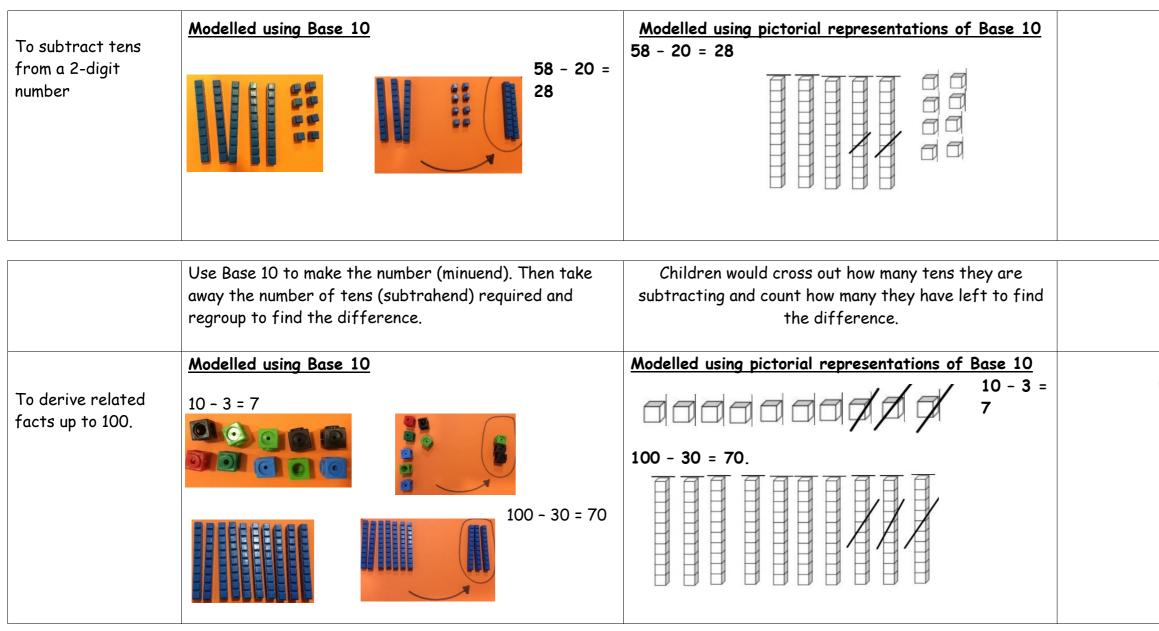
Record by drawing their own number line. Children count up from the smallest (subtrahend) to largest (minuend) number. Children would first count on to the next ten

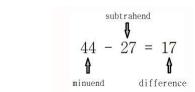




subtrahend -27 = 1744 4 minuend differenc Partition each number then subtract the bottom number (subtrahend) from the top number (minuend), starting 43 = 40 + 321 = 20 + 120+2=22 Partition each number then subtract the bottom number (subtrahend) from the top number (minuend), starting with the ones. Exchange tens for ones then recombine 15 30 45 = 40 + 529 = 20 + 910 +6 =16

Record as a written calculation.





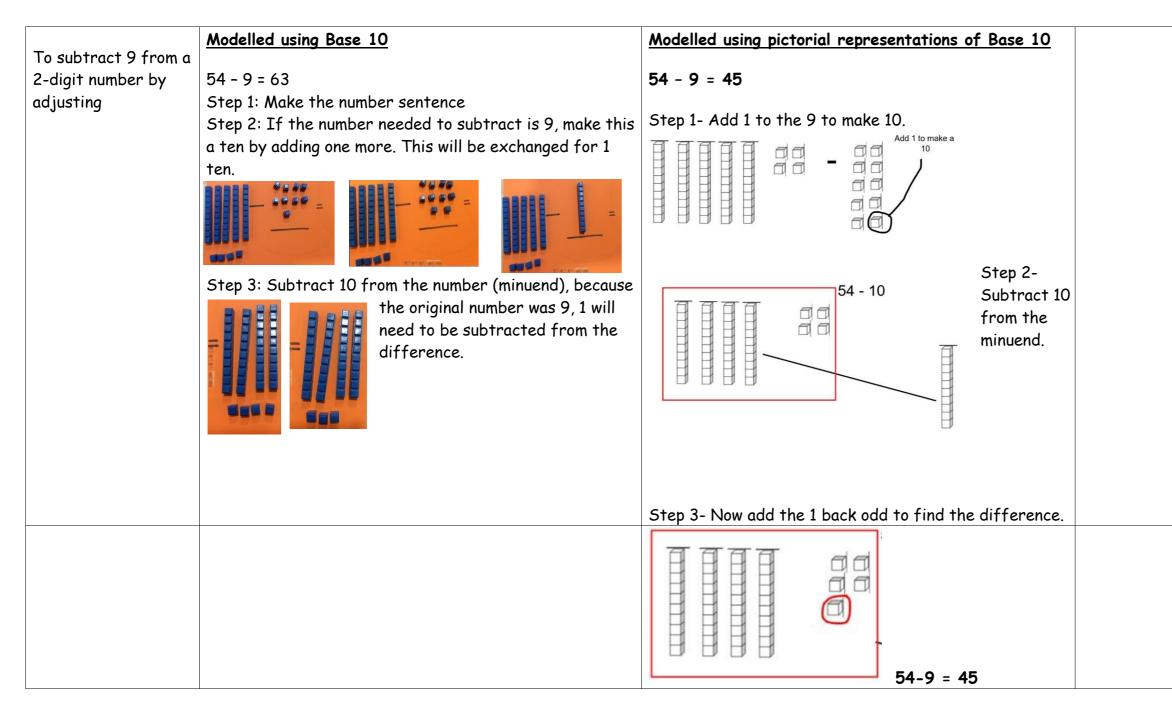
Record as a written calculation.

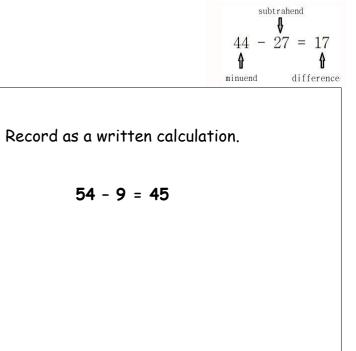
### 58 - 20 = 28

Record as a written calculation.

10 - 3 = 7

10 - 30 = 70.





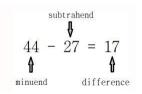
### <u>Year 3</u>

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.	<b>345-3</b> If the ones in the second number (subtrahend) can be taken from the first number (minuend) then subtract the original field of the ones in the subtrahend are more than the minuend then use partitioning to solve. For 432-8 you would partition 8 into $2432 - 2 = 430 - 6 = 424$ .
*Subtract a 3- digit number and tens including crossing boundaries.	554-40If the tens in the second number (subtrahend) can be taken from the first number (minuend) then subtract the t543-70If the tens in the subtrahend are more than the minuend then use partitioning to solve. For 543-70 you would parthen 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 a Alternatively you could count back in steps of one hundred from the minuend.
*Subtract ones from a 3-digit tens number.	<b>3<u>40-7</u></b> 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	90-27 Use knowledge of place value and partitioning to solve. Partition 27 into 20 and 7 and subtract each part from 90. 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 90-27= 63
Subtract a 2-digit number from a 2digit number, including crossing boundaries.	<ul> <li>56-32 If the ones and tens can be subtracted without exchange then subtract by partitioning. 56-32 would be 50-30 = 20 recombine 20 and 4 to make 24 so 56-32=24.</li> <li>45-27 If the ones in the second number (subtrahend) is more than the first number (minuend) then use partitioning to sol partition 27 into 20 and 7 first. Then subtract from the minuend. 45-20= 25 then 25-7=18 so 45-27=18 of 45-27=18</li></ul>
*Subtract near multiples of 10 and 100 and adjust .	<ul> <li>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 r 43-<u>10</u>=33 <u>+1</u> = 44.</li> <li>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 do 543-<u>100</u>=443 +1 = 444.</li> </ul>



e ones only 34<u>5</u>-<u>3</u>= 34<u>2</u>. **43<u>2</u>-<u>8</u>** 2 and 6 then

tens 5<u>5</u>4-<u>4</u>0= 5<u>1</u>4 artition 70 into 40 and 30 and

t the hundreds <u>7</u>54-<u>4</u>00= <u>3</u>54

90<u>- 20</u>= 70 and use

d <u>60</u> more to get to 90 so

<u>20 and 6 - 2 = 4 then</u>

solve. For 45-27 you could

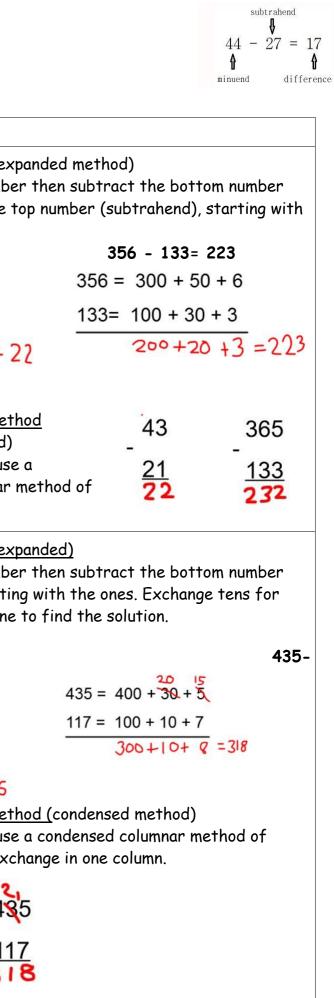
ld <u>10</u> more to get to 40

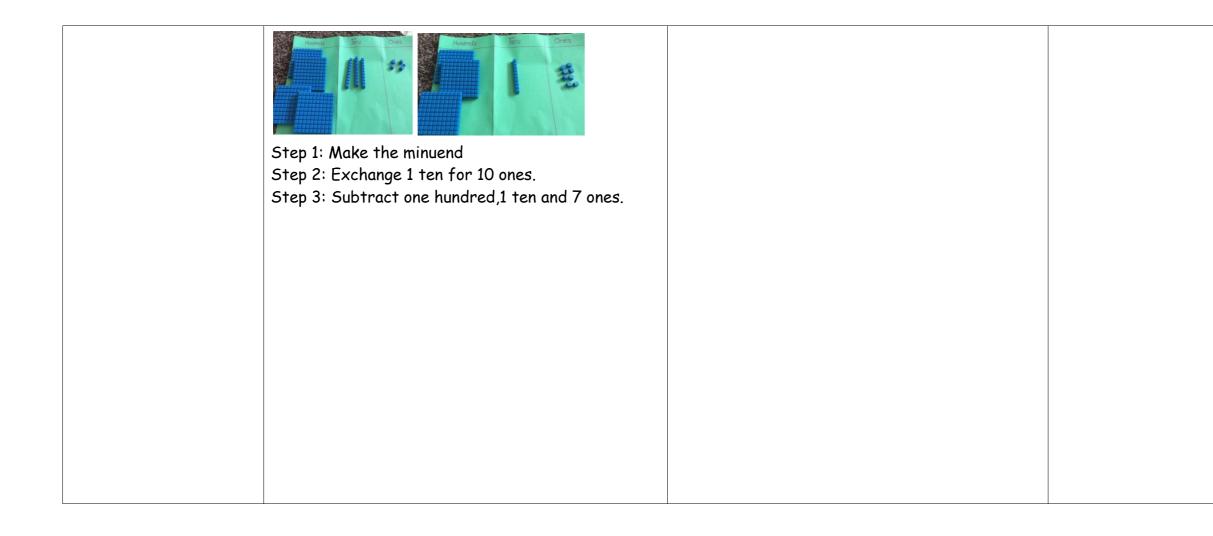
e more than 9. For 43-9, you would do

lly one more than 99. For 543-99, you would

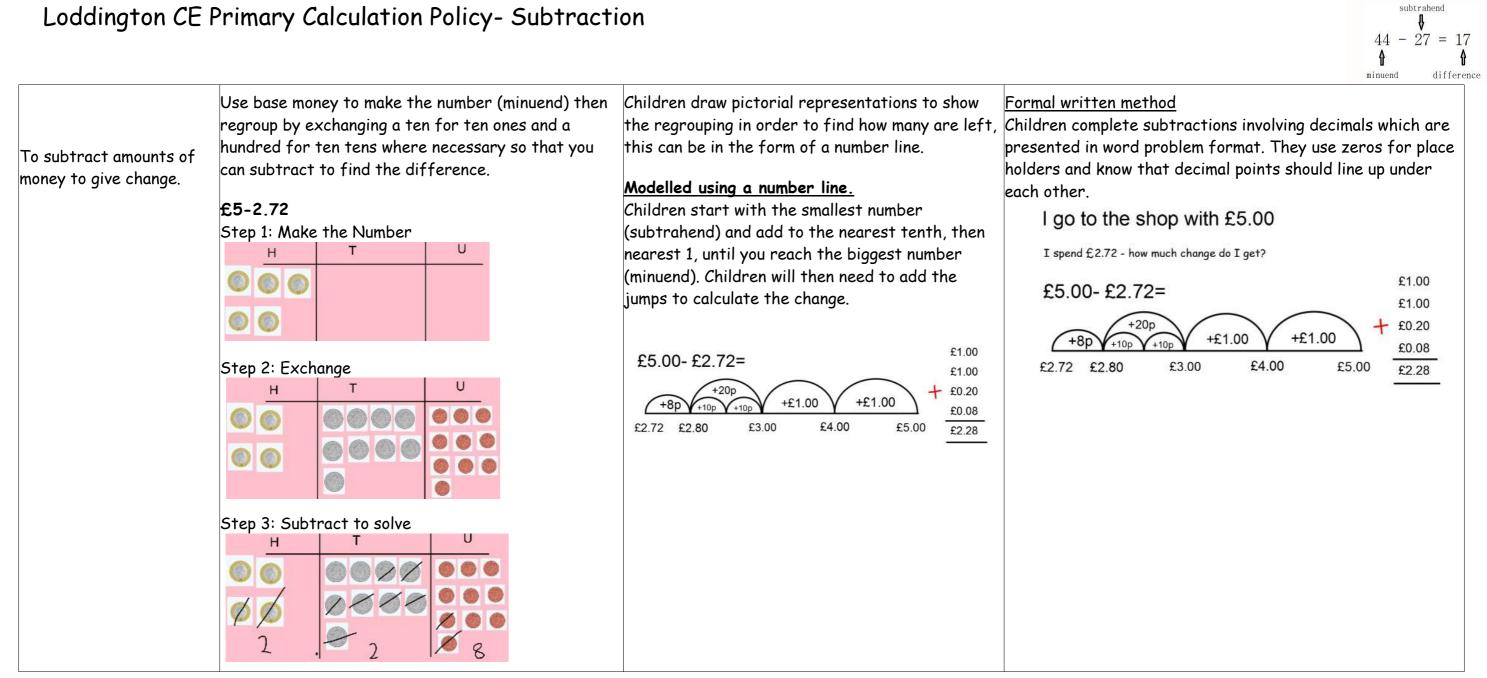
### Year 3 Calculation Methods

Objective & Strategy	Concrete	Pictorial	Abstract
To subtract 2 and 3 digit numbers without exchange.	Use base 10 to make the number (minuend) then take away the ones, tens then the hundreds to find the difference. 43 - 21 = 22 $356 - 133 = 223$ $56 - 133 = 223$	Children draw pictorial representations to show the regrouping in order to find how many are left. 43-21=22 Hundreds tens ones 56 - 133= 223 Hundreds tens ones 2 2 2 3	$\frac{\text{Written Method}}{\text{Partition each number}} (exPartition each number(minuend) from the tothe ones.43 - 21 = 2243 = 40 + 321 = 20 + 120 + 2 = 2\frac{\text{Formal Written Method}}{20 + 2 = 2}\frac{\text{Formal Written Method}}{20}Children begin to usecondensed method)Children begin to usecondensed columnarsubtraction.$
To subtract 2 and 3 digit numbers with exchange.	Use base 10 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 the subtrahend. 45- 51-	Children draw pictorial representations to show the regrouping in order to find the difference. 45 - 29 = 16 435 - 117 = 318 Step 1: Step 2: 435 - 117 = 318 5 = 10 5 = 10	Written Method (ex Partition each number from the top, starting ones then recombined 45 - 29 117=318 45 = $\frac{30}{40} + \frac{15}{5}$ 29 = 20 + 9 10 + 6 = 16 Formal Written Method Children begin to user subtraction with excert $\frac{29}{16}$ $\frac{11}{31}$





subtrahend ₿ 44 - 27 = 17A A difference minuend

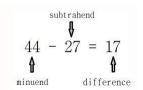


### Year 4

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, 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 <u>strategies</u>

Skill	Strategy
*Subtract a 4-digit number and ones, including crossing boundaries.	<b>3345-3</b> If the ones in the second number (subtrahend) can be taken from the first number (minuend) then subtract the $\underline{8}$ If the ones in the subtrahend are more than the minuend then use partitioning to solve. For 2432-8 you would partition 2432 - 2 = 430-6 = 2424.
*Subtract a 4- digit number and tens including crossing boundaries.	<ul> <li>55<u>5</u>4-<u>40</u> If the tens in the second number (subtrahend) can be taken from the first number (minuend) then subtract the</li> <li>25<u>4</u>3-<u>70</u> If the tens in the subtrahend are more than the minuend then use partitioning to solve. For 25<u>4</u>3-<u>70</u> you would then 2543 - 40 = 2503 - 30 = 2473. Alternatively you could count back in steps of ten from the minuend.</li> </ul>
*Subtract a 4-digit number and hundreds including crossing boundaries.	<ul> <li>8754-400 If the hundreds in the second number (subtrahend) can be taken from the first number (minuend) then subtract</li> <li>2543-700 If the hundreds in the subtrahend are more than the minuend then use partitioning to solve. For 2543-700 you then 2543 - 500 = 2043 -200 = 1843. Alternatively you could count back in steps of one hundred from the minuend.</li> </ul>
*Subtract a 4-digit number and thousands including crossing boundaries.	<u>4</u> 527- <u>2</u> 000 If the thousands in the second number (subtrahend) can be taken from the first number (minuend) then subtrace 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.	<ul> <li>345-130 If all the digits on the second number (subtrahend) can be subtracted then solve by portioning. For 345-130, you then recombine 200+10+5=215</li> <li>546-270 If all or some of the digits in the subtrahend are more than the minuend then use partitioning to solve. For 546-2 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 to 30+200+46= 276.</li> </ul>
*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. 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 more</u> 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.	<ul> <li>237-24 If the ones and tens can be subtracted without exchange then subtract by partitioning. 237-24 would be 237-20=</li> <li>432-171 If the ones or tens in the second number (subtrahend) is more than the first number (minuend) then use partition partition 171 into 100, 70 and 1 first. Then subtract from the minuend. 432-100= 332 then 332-70=262 then 263-100 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 mo then another 32 more to get to 432. I then recombine 29 with 200 with 32 to get 261 so 432-171=261</li> </ul>
*Subtract near multiples of 10, 100 and 100 then adjust.	<ul> <li>543-29 When subtracting 29 you would <u>subtract 30</u> (1 more than 29) from the minuend then <u>add 1</u> because 30 is actual would do 543-30=513+1 = 514</li> <li>543-299 When subtracting 299 you would <u>subtract 300</u> (1 more than 299) from the minuend then <u>add 1</u> because 300 is you would do 543-300=243 +1 = 244.</li> <li>5437-3999 When subtracting 3999 you would <u>subtract 4000</u> (1 more than 3999) from the minuend then <u>add 1</u> because 40 For 5437-3999, you would do 5437-4000=1437+1= 1438</li> </ul>



- he ones only 334<u>5</u>-<u>3</u>= 334<u>2</u>. **2432**tion 8 into 2 and 6 then
- ie tens 55<u>5</u>4-<u>4</u>0= 55<u>1</u>4 d partition 70 into 40 and 30 and
- ict the hundreds 8<u>7</u>54-<u>4</u>00= 8<u>3</u>54 u would partition 700 into 500 and 200 and
- ract the thousands <u>4527-2000=2527</u>
- u would do 300<u>-100</u>=200, 40<u>-30</u>=10 and 5<u>-0</u>=5
- -270, you would partition 270 in 200 and
- 0 then add 46 to get to 546. Then recombine
- 0. 200<u>- 20</u>= 180 and use
- <u>dd 70</u> more to get to 100 then another <u>100</u>
- 0=217 and then subtract 4 = 213. oning to solve. For 242-171 you could -1=261 so 432-171=261 nore to get to 400
- ually one more than 29. For 543-29, you
- is actually one more than 299. For 543-299,
- 4000 is actually one more than 3999.

Objective & Strategy	Concrete	Pictorial	
To subtract numbers with up 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 hundred for ten tens or a thousands for ten hundreds where necessary so that you can subtract the subtrahend. 2754-1568=1186 Step 1: Make the minuend. Step 2: Exchange 1 ten for 10 ones		Formal written meth Children use a conder examples with multip 2754 - 1568 = 1 2754 - 2754 - 1568 - 1568
To subtract numbers with up to 4 digits using a formal written method, including decimals to two decimal places. To subtract amounts of money to give change- adapted 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 tenths and ten tenths for a hundredth so that you can subtract. $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad TH \qquad H \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad TH \qquad H \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad TH \qquad H \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad TH \qquad H \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad TH \qquad H \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad TH \qquad H \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad TH \qquad H \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad TH \qquad H \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad TH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 1: Make the number}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 2: Exchange}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 2: Exchange}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 2: Exchange}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 2: Exchange}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 2: Exchange}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 2: Exchange}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 2: Exchange}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 2: Exchange}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 2: Exchange}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 2: Exchange}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 2: Exchange}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 2: Exchange}} \qquad FTH \qquad T \qquad O$ $ \frac{f1.45-28p=f1.17}{\text{Step 2: Exchange}} \qquad FTH \qquad T \qquad $	£1.45-28p=£1.17 - 0 Tenths Hundreths 1 $1$ $71$ $1$ $71$ $1$ $71$ $1$ $71$ $1$ $71$ $1$ $71$ $1$ $7$	

### Abstract

thod

densed method of subtraction, including tiples exchanges.

subtrahend

44 - 27 = 17

**d**ifference

₽

minuend

1186

4



thod

subtractions involving decimals which are problem format. They use zeros for place hat decimal points should line up under

in the shop.

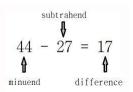
of her pocket money. How much ceive?

£1.45 - 28p  $\pm 1.34^{1}5$ . 4 £1.

<u>Year 5</u> <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 less is...? 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
*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 number <u>100 times bigger</u> . 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 anoth to get to 5400. Next recombine 100+1000+400= 1500 so 5400-3900=1500
*Subtract near multiples of 10, 100, 1000, 10,000 then adjust, including crossing boundaries.	2335-58 2345-297 5438-3995Subtract the nearest multiple of 10 (60) then add 2 because 58 is two more than 60 Subtract the nearest multiple of 100 (300) then add 3 because 300 is three more than 297 Add the nearest multiple of 1000 (4000) then add 5 because 4000 is five more than 3995233 234
*Subtract tenths from a 1-digit whole number and tenths.	<ul> <li>5.7-0.4 If the tenths in the second number (subtrahend) are smaller than the tenths in the first number (m separately 5.7 - 0.4 = 5.3</li> <li>6.5-0.7 If the tenths in the second number (subtrahend) are larger than the tenths in the first number (mir bonds to partition. For 6.5-0.7, partition 0.7 into 0.5 and 0.2. Then subtract 0.5 from 6.5 to get 6 then subtract 0.3</li> </ul>
*Subtract two 1-digit whole numbers and tenths.	<ul> <li>4.7-2.5 If the ones and tenths in the second number (subtrahend) are smaller than the ones and tenths in 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 recomb</li> <li>6.4 - 3.7 If the tenths in the second number (subtrahend) are larger than the tenths in the first number (mi to solve. Make both numbers ten times bigger then calculate 64-37= 27. To adjust make your answer 10 times smaller than the tenths in the second number (subtrahend) are larger than the tenths in the first number (mi to solve. Make both numbers ten times bigger then calculate 64-37= 27. To adjust make your answer 10 times smaller than the tenths in the second number (subtrahend) are larger than the tenths in the first number (mi to solve. Make both numbers ten times bigger then calculate 64-37= 27. To adjust make your answer 10 times smaller than the tenths in the second number (subtrahend) are larger than the tenths in the first number (mi to solve. Make both numbers ten times bigger then calculate 64-37= 27. To adjust make your answer 10 times smaller than the tenths in the second number (subtrahend) are larger than the tenths in the first number (mi to solve. Make both numbers ten times bigger then calculate 64-37= 27. To adjust make your answer 10 times smaller tenths in the second number (subtrahend) are larger tenths in the second number (subtrahend) are larger tenths in the tenths in the first number (mi to solve. Make both numbers tenths in the second number (subtrahend) are larger tenths tenths in the tenths in the tenths in the second number (subtrahend) are larger tenths in the tenths in the</li></ul>
*Subtract 2-digit numbers with tenths and hundredths.	<b>0.46-0.23</b> If the ones, tenths and hundredths in the second number (subtrahend) are smaller than the ones and then subtract the hundredths, tenths and ones separately. For 0.46-0.23 subtract the ones $0-0=0$ , subtract the tens subtract the hundredths $0.06-0.03=0.03$ then recombine $0+0.2+0.03=0.23$ <b>0.76-0.59</b> If the tenths/ hundredths in the second number (subtrahend) are larger than the tenths/ hundredth knowledge of place value to solve. Make both numbers 100 <u>times bigger</u> then calculate 76-59=17 To adjust make you <u>smaller</u> 17 ÷ 100 = 0.17 so 0.76-0.59=0.17
*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 <u>add 0.4</u> , I get to 6 then I I then recombine 0.4 and 2 so 8-5.6=2.4



imes smaller and do 54-39=15 then make the

ther 1000 to get to 5000 then another 400

335-<u>60</u>= 2275<u>-+2</u>= 2277 345-<u>300</u>= 2045+<u>3</u>= 2048 38-<u>4000</u>= 1438+<u>5</u>= 1443

minuend) then subtract the tenths and ones

ninuend) then use your knowledge of number 0.2 = 5.8 so 6.5-0.7= 5.8

the first number (minuend) then subtract nbine. 4.7-2.5=2.2 minuend) use your knowledge of place value naller  $27 \div 10 = 2.7$  so

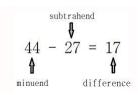
and tenths in the first number (minuend) enths 0.4-0.2=<u>0.2</u> then

dths in the first number (minuend) use your your answer <u>100 times</u>

I need to <u>add 2</u> more to get to 8.

## Year 5 Calculation Methods

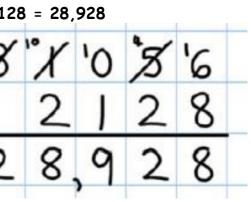
Objective & Strategy	Concrete	Pictorial	
To subtract numbers with more than 4 digits.	Use the place value counters to make the number (minuend) then regroup by exchanging, where necessary: a thousand for ten hundreds, a hundred for ten tens, a ten for ten ones, a one for ten tenths and ten tenths for a hundredth so that you can subtract. <b>31056 - 2128 = 28,928</b> <u>hundreds tens ones</u> <b>budded tens ones</b> <b>budded tens ones</b>	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 O O O O O O O O O	Formal writte Children use of including thos 31056 - 2120 23 

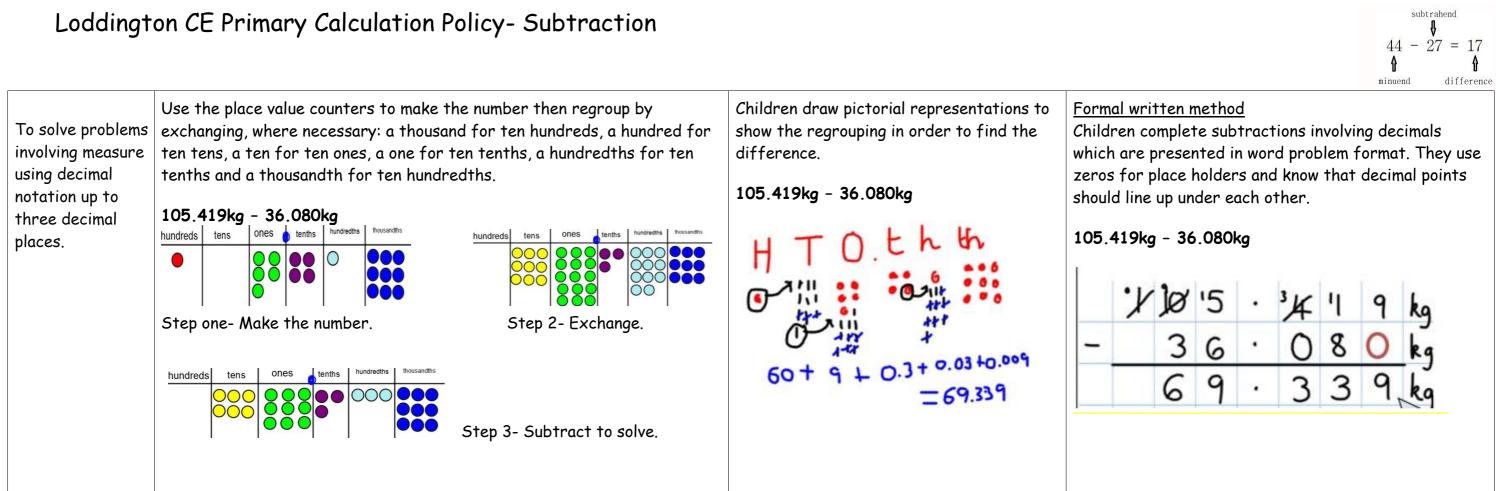


### Abstract

tten method

e a condensed method of subtraction nose with different numbers of digits.





Year 6 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.	53,765-3330For large numbers use partitioning to solve. For 53,765-3330, partition the subtrahend into subtractsubtracteach part. 53,765-3000=50,765 then subtract 300 = 50, 465 the subtract 30= 5	
*Subtract near multiples of 0.01, 0.1, 10, 100, 1000 then adjust, including crossing boundaries.	<ul> <li>6.7 - 3.8</li> <li>4.92 - 2.96</li> <li>Subtract the nearest whole number (4) then <u>add 0.2</u> because 4 is actually 0.2 more than 3.8</li> <li>Subtract the nearest whole number (3) then <u>add 0.04</u> because 3 is actually 0.04 more than 2</li> </ul>	
*Subtract decimals with different numbers of places.	<ul> <li>0.45-0.3 Subtract by partitioning using your knowledge of place value. First subtract the ones 0 - 0 = 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 100 times bigger and subtract. 4 times smaller. 15÷100=1.5 so 0.45-0.3=1.5</li> </ul>	

to 3000 and 300 and 30 and 50,435

8 so 6.7<u>-4</u>=2.7 <u>+0.2</u>= 2.9 2.96 so 4.92-3= 1.92+0.04= 1.96

= 0, then the tenths 0.4 - 0.3 = 0.1

45-30=15 then make the solution 100

*Subtract any number with up to three	4-0.34 Use the counting on method and knowledge of place value to find the difference. If I start w
Subfruct dify number with up to three	0.54 Use the counting on method and knowledge of place value to this the attractice. If I start w
decimal places from a whole number.	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 w
	need to <u>add 13</u> more to get to 14. I then recombine 0.568 and 13 so 14-0.432=13.568

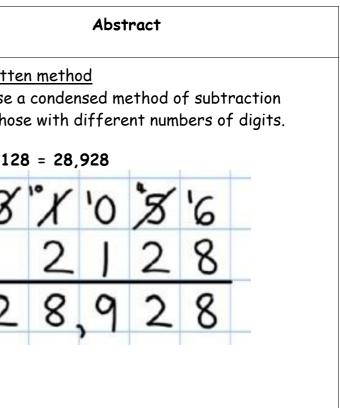
### Year 6 Calculation Methods

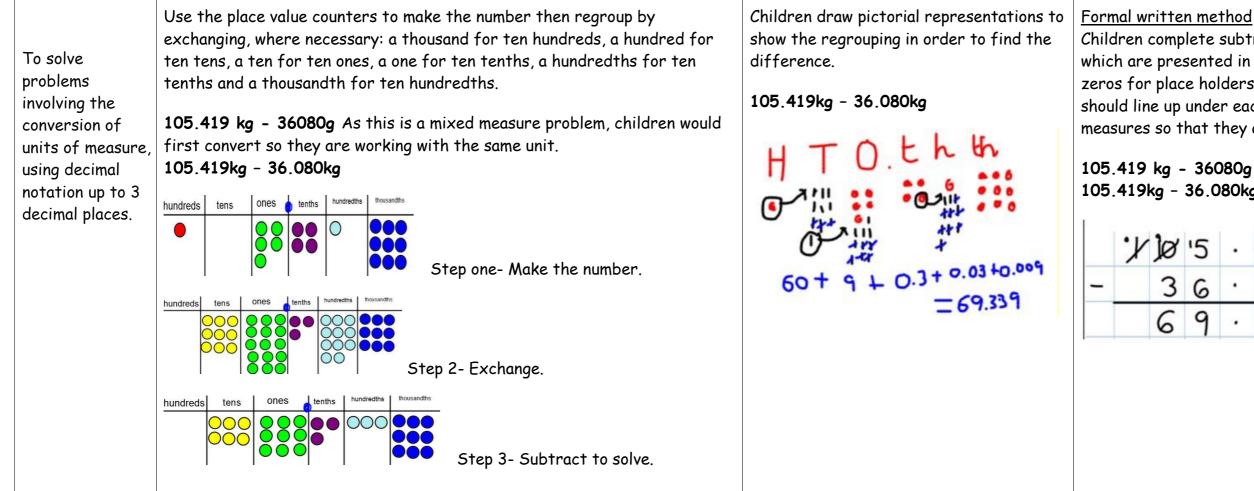
Objective & Strategy	Concrete	Pictorial	
To subtract numbers with increasingly large and complex numbers.	Use the place value counters to make the number (minuend) then regroup by exchanging, where necessary: a thousand for ten hundreds, a hundred for ten tens, a ten for ten ones, a one for ten tenths and ten tenths for a hundredth so that you can subtract. <b>31056 - 2128 = 28,928</b> <u>hundred tens ones</u> <b>builded tens ones</b> <b>builded tens ones</b> <b></b>	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 O O O O O O O O O	Formal writte Children use of including thos 31056 - 212 23 

subtrahend 44 - 27 = 17₽ difference minuend

with 0.34 and <u>add 0.66</u>, I get to 1 then I

with 0.432 and add 0.568, I get to 1 then





subtrahend -27 = 1744 4 minuend difference

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. They convert measures so that they are working with the same unit.

105.419 kg - 36080g would convert into 105.419kg - 36.080kg

Ø	'5	•	3K	Ч	9	kg
3	6	•	0	8	0	kg
6	9		3	3	9	kg