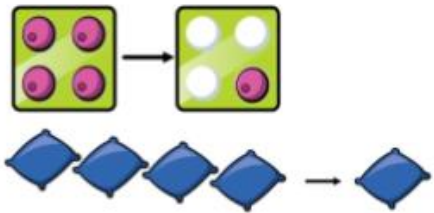
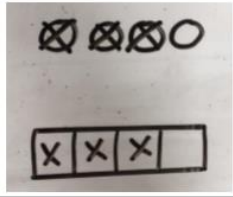
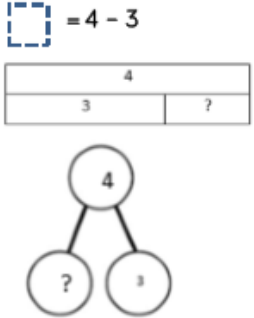
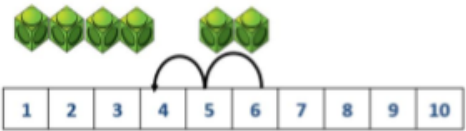
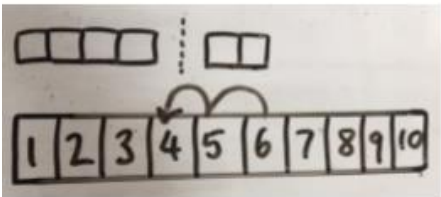
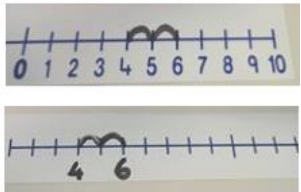
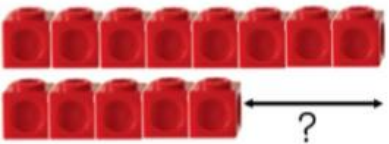
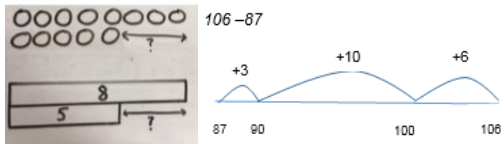
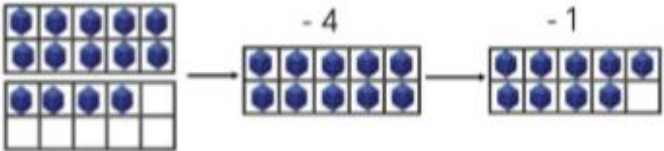

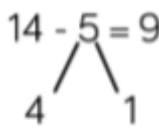
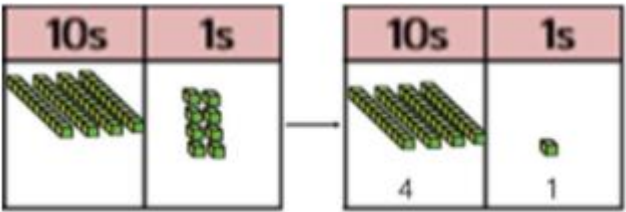
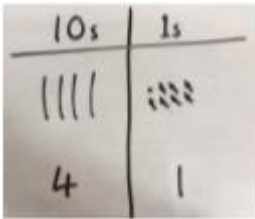
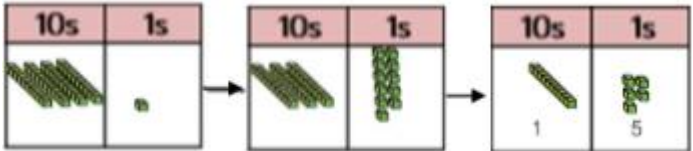



Subtraction

Skills	Concrete	Pictorial	Abstract
Physically taking away and removing objects from a whole take away, left less than, smaller, least, decrease, fewer	<p>ten frames, Numicon, cubes and other items such as beanbags could be used</p> <p>$4 - 3 = 1$</p> 	<p>Children to draw the concrete resources they are using and cross out the correct amount. The bar model could also be used.</p> 	<p>$4 - 3 =$</p> <p></p>
Counting back count back, number line	<p>Using number lines or number tracks</p> <p>$6 - 2 = 4$</p> 	<p>Children to represent what they see pictorially e.g.</p> 	<p>Children to represent the calculation on a number line or number track to show their jumps. Encourage children to use an empty number line.</p>  <p><i>*End of YR target*</i></p>
Finding the difference difference between, count on	<p>Using cubes, Numicon or Cuisenaire rods, other objects can also be used</p> <p>Calculate the difference between 8 and 5.</p> 	<p>Children to draw the cubes/other concrete objects which they have used or use the bar model to illustrate what they need to calculate.</p>  <p>Using counting on as an informal written strategy for subtraction.</p>	<p>Find the difference between 8 and 5.</p> <p>$8 - 5$, the difference is <input type="text"/></p> <p>Children to explore why $9 - 6 = 8 - 5 = 7 - 4$ have the same difference.</p>

Subtraction

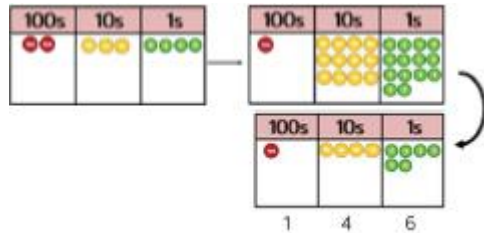
<p>Making 10</p> <p>bonds, partition, tens</p>	<p>Using ten frames 14 - 5</p> 	<p>Children to present the ten frame pictorially and discuss what they did to make 10.</p> 	<p>Children to show how they can make 10 by partitioning the number being subtracted.</p> $14 - 5 = 9$  $14 - 4 = 10$ $10 - 1 = 9$ <p><i>*End of Y1 target*</i></p>
<p>Subtracting (no regrouping)</p> <p>subtraction, minus,</p>	<p>Using base 10 48 - 7</p> 	<p>Children to represent the base 10 pictorially.</p> 	<p>Children can count back 7 from the ones digit.</p> $\begin{array}{r} 40 \quad 8 \\ - \quad 7 \\ \hline 40 \quad 1 = 41 \end{array}$
<p>Subtracting (regrouping)</p> <p>exchange, column subtraction</p>	<p>Using base 10 and having to exchange 41 - 26</p> 	<p>Represent the base 10 pictorially, remembering to show the exchange.</p> 	$\begin{array}{r} 30 \quad 11 \\ - 20 \quad 6 \\ \hline 10 \quad 5 = 15 \end{array}$ <p>Children must understand that when they have exchanged the 10 they still have 41 because $41 = 30 + 11$.</p> <p>N.B. See Written Methods page</p> <p><i>*End of Y2 target*</i></p>

Subtraction

Column method – subtracting two three-digit numbers

compact, hundreds,

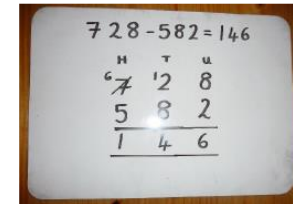
Using place value counters
234 – 88



Representing the place value counters pictorially; remembering what has been exchanged.



Formal column method. Children must understand what has happened when they have crossed out digits.

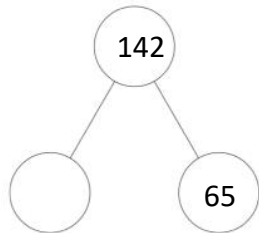


N.B. See Written Methods page

End of Y3 target

Conceptual variation (to build fluency):

142 – 65



142	
65	

There are 142 pencils in a box but 65 have been broken. How many pencils are left to use?

$$142 - 65 = \square$$

$$142 - \square = 65$$

Find the difference between 65 and 142.

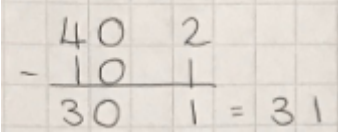
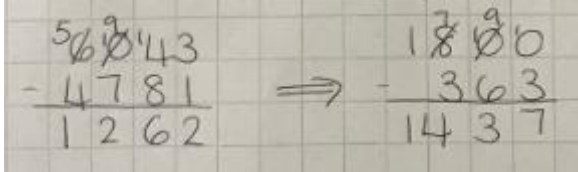
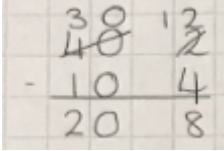
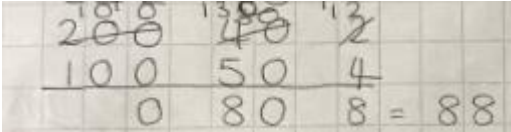
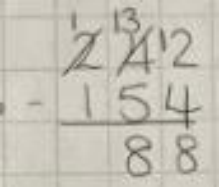
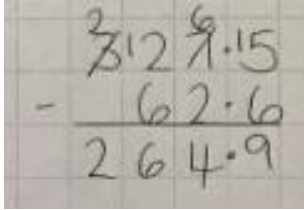
Mental Strategies:

- Count back in hundreds, tens or ones
- 1 less than a number, 10 less than a number
- Subtract mentally a near multiple of 10
- Find a small number by counting back
- Find a difference by counting up from the smaller number to the larger number (on a number line)
- Bridge through a multiple of 10 and then adjust
- Use knowledge of number facts and place value to subtract pairs of numbers
- Subtract a 2-digit number by partitioning it and then subtracting its tens and ones
- Use the relationship between addition and subtraction

Subtraction

Written Methods of Subtraction

N.B. Written abstract methods must only be used once children have a secure understanding of the operation and place value.

1. Expanded – no exchange 42 - 11 	Teaching Point Encourage children to start at the 'ones' column to feed into later practice.	4. Include a 0 	Teaching Point Always include 4-digit – 3-digit to ensure secure place value. <i>*End of Y4 target*</i>
2. Expanded – 1 exchange 42 - 14 	Teaching Point You are exchanging 1 ten for 10 ones – make this vocabulary explicit.		Teaching Point Children must include the decimal point in the sum, and line them up like buttons on a shirt to ensure correct place value <i>*End of Y5 target*</i>
3. 2 exchanges 242 – 154 Expanded:  Compact: 	Teaching Point You can progress to compact method at any step once the child is secure with their place value.	5. Decimals 327.5 – 62.6 	Teaching Point Encourage use of 0 as a place holder. <i>*End of Y6 target*</i>
		6. Decimals to 3d.p in context 5.560 – 2.289 