

Year Four	Year Five	Year Six
Missing number/digit problems: 456 + □ = 710;	Missing number/digit problems: 6.45 = 6 + 0.4 + \Box ; 119	Missing number/digit problems: □ and # each stand for
$1\Box7 + 6\Box = 200; 60 + 99 + \Box = 340; 200 - 90 - 80 = \Box;$	- □ = 86; 1 000 000 - □ = 999 000; 600 000 + □ + 1000 =	a different number. $\# = 34$. $\# + \# = \Box + \Box + \#$. What is
225 - 🗆 = 150; 🗆 - 25 = 67; 3450 - 1000 = 🗆; 🗆 - 2000 =	671 000; 12 462 – 2 300 = 🗆	the value of \Box ? What if # = 28? What if # = 21
900	Mental methods should continue to develop,	10 000 000 = 9 000 100 + 🗆
Mental methods should continue to develop,	supported by a range of models and images, including	$7 - 2 \times 3 = \Box; (7 - 2) \times 3 = \Box; (\Box - 2) \times 3 = 15$
supported by a range of models and images, including	the number line. The bar model should continue to be	Mental methods should continue to develop,
the number line. The bar model should continue to be	used to help with problem solving. Children should	supported by a range of models and images, including
used to help with problem solving. Children should	make decisions about most efficient methods eg 2000-	the number line. The bar model should continue to be
make decisions about most efficient methods eg 2000-	1999	used to help with problem solving.
1999	Written methods (progressing to more than 4-digits)	Written methods
Written methods (progressing to 4-digits)	When understanding of the expanded method is	As year 5, progressing to larger numbers, aiming for
Expanded column subtraction with decomposition,	secure, children will move on to the formal method of	both conceptual understanding and procedural fluency
modelled with place value counters, progressing to	decomposition, which can be initially modelled with	with decomposition to be secured.
calculations with 4-digit numbers.	place value counters.	Teachers may also choose to introduce children to
• • •		other efficient written layouts which help develop
		conceptual understanding. For example:
200 30 2	6232	326
	- 4814	-148
• • <u>100 10 8</u>		-2
		-20
If understanding of the expanded method is secure,		200
children will move on to the formal method of	Progress to calculating with decimals including those	178
with place value counters	with different numbers of decimal places	Continue calculating with desimals including those
with place value counters.	with uncreate numbers of decimal places.	with different numbers of desimal places
		with different numbers of decimal places.