

INSPIRE our children to succeed
CREATE excitement for learning

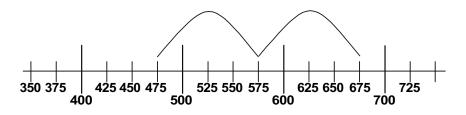
ACHIEVE EXCELLENCE

YEAR 3

Using place value

Count in 100s





Add multiples of 10, 100 and £1

e.g. 746 + 200

e.g. 746 + 40

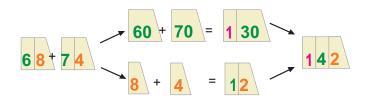
e.g. £6·34 + £5 as £6 + £5 and 34p

Partitioning

e.g. $\pounds 8.50 + \pounds 3.70$ as $\pounds 8 + \pounds 3$ and 50p + 70p and combine the totals: $\pounds 11 + \pounds 1.20$

e.g. 347 + 36 as 300 and 40 + 30 and 7 + 6 and combine the totals: 370 + 13 = 383

e.g. 68 + 74 as 60 + 70 and 8 + 4 and combine the totals: 130 + 12 = 142



YEAR 4

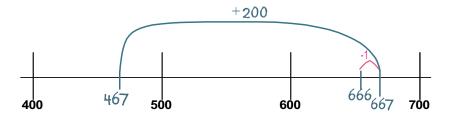
Using place value

Count in 1000s e.g. *Know* 3475 + 2000 as 3475, 4475, 5475 Partitioning e.g. 746 + 40 e.g. 746 + 203 as 700 + 200 and 40 and 6 + 3 e.g. 134 + 707 as 100 + 700 and 30 and 4 + 7

Counting on

Add 2-digit numbers to 2-, 3- and 4-digit numbers by adding the multiple of 10 then the 1s $\,$

e.g. 167 + 55 as 167 + 50 (217) + 5 = 222 Add near multiples of 10, 100 and 1000 e.g. 467 + 199 e.g. 3462 + 2999



Count on to add 3-digit numbers and money e.g. 463 + 124 as 463 + 100 (563) + 20 (583) + 4 = 587 e.g. $\pounds 4.67 + \pounds 5.30$ as $\pounds 9.67 + 30p$



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X ACHIEVE EXCELLENCE

YEAR 3

Counting on

Add two 2-digit numbers by adding the multiple of 10, then the 1s e.g. 67 + 55 as 67 + 50 (117) + 5 = 122Add near multiples of 10 and 100 e.g. 67 + 39e.g. 364 + 199Add pairs of 3-digit numbers e.g. 548 + 120Count on from 3-digit numbers e.g. 247 + 34 as 247 + 30 (277) + 4 = 281

Using number facts

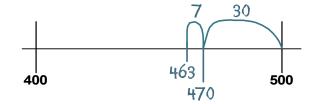
Know pairs which total each number to 20 e.g. 7 + 8 = 15e.g. 12 + 6 = 18Number bonds to 100 e.g. 35 + 65e.g. 46 + 54e.g. 73 + 27

Add to the next 10 and the next 100 e.g. 176 + 4 = 180 e.g. 435 + 65 = 500

YEAR 4

Using number facts

Number bonds to 100 and to the next multiple of 100 e.g. 288 + 12 = 300 e.g. 1353 + 47 = 1400 e.g. 463 + 37 = 500



Number bonds to £1 and to the next whole pound e.g. 63p + 37p = £1e.g. $£3 \cdot 45 + 55p = £4$ Add to the next whole number e.g. $4 \cdot 6 + 0 \cdot 4$ e.g. $7 \cdot 2 + 0 \cdot 8$



STRATEGIES AND METHODS OF WRITTEN ADDITION

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ACHIEVE EXCELLENCE

YEAR 3

Build on partitioning to develop expanded column addition with two 3-digit numbers

e.g. 466 + 358

	400	60	6	
+	300	50	8	8
	700	110	14	= 824

Use expanded column addition where digits in a column add to more than the column value

e.g. 466 + 358

	400	60	6
+	300	50	8
	800	20	4
	100	10	

Compact column addition with two or more 3-digit numbers or towers of 2-digit numbers

2 1 7

e.g. 347 + 286 + 495

	347
	<mark>286</mark>
+	495
	1128
	121

Compact column addition with 3- and 4-digit numbers Recognise like fractions that add to 1

> e.g. 1/4 + 3/4 e.g. 3/5 + 2/5

YEAR 4

Build on expanded column addition to develop compact column addition with larger numbers

e.g. 1466 + 4868

	1000	400	60	6
+	4000	800	50	8
_				
	6000	300	30	4

Compact column addition with larger numbers e.g. 5347 + 2286 + 1495

	5347
	2286
+	1495
	9 <mark>128</mark>
	121

Use expanded and compact column addition to add amounts of money

Add like fractions

e.g. 3/8 + 1/8 + 1/8



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ACHIEVE EXCELLENCE

YEAR 5

Using place value

Count in 0.1s, 0.01s e.g. *Know what 0.1 more than 0.51 is*

10s	1s	0.1s	0.01s	
	0	5	1	

Partitioning

e.g. $2 \cdot 4 + 5 \cdot 8$ as 2 + 5 and $0 \cdot 4 + 0 \cdot 8$ and combine the totals: $7 + 1 \cdot 2 = 8 \cdot 2$

0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2
2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3
3.1	3·2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4
4·1	4·2	4 ∙3	4.4	4 ∙5	4.6	4·7	4 ∙8	4.9	5
5·1	5·2	5.3	5∙4	5·5	5.6	5.7	5·8	5.9	6
6·1	6·2	6.3	6.4	6·5	6.6	6.7	6·8	6.9	7
7·1	7·2	7·3	7·4	7·5	7·6	7.7	7·8	7.9	8
8·1	8·2	8.3	8·4	8·5	8.6	8·7	8.8	8.9	9
9·1	9·2	9.3	9·4	9.5	9.6	9·7	9.8	9.9	10

YEAR 6

Using place value

Count in 0.1s, 0.01s, 0.001s e.g. *Know what 0.001 more than 6.725 is* Partitioning e.g. 9.54 + 3.23 as 9 + 3, 0.5 + 0.2 and 0.04 + 0.03, to give 12.77

Counting on

Add two decimal numbers by adding the 1s, then the 0.1s/0.01s/0.001se.g. 6.314 + 3.006 as 6.314 + 3 (9.314) + 0.006 = 9.32Add near multiples of 1 e.g. 6.345 + 0.999e.g. 5.673 + 0.9Count on from large numbers e.g. $16\ 375 + 12\ 003\ as\ 28\ 375 + 3$



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ACHIEVE EXCELLENCE

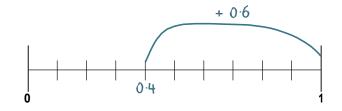
YEAR 5

Counting on

Add two decimal numbers by adding the 1s, then the 0.1s/0.01se.g. 5.72 + 3.05 as 5.72 + 3 (8.72) + 0.05 = 8.77Add near multiples of 1 e.g. 6.34 + 0.99e.g. 5.63 + 0.9Count on from large numbers e.g. 6834 + 3005 as 9834 + 5

Using number facts

Number bonds to 1 and to the next whole number e.g. $5 \cdot 7 + 0 \cdot 3$ e.g. $0 \cdot 4 + 0 \cdot 6$



Add to the next 10 from a decimal number e.g. $7 \cdot 8 + 2 \cdot 2 = 10$

YEAR 6

Using number facts

Number bonds to 1 and to the next multiple of 1 e.g. 0.63 + 0.37e.g. 2.355 + 0.645+ 0.37



Add to the next 10 e.g. 4.62 + 5.38



STRATEGIES AND METHODS OF WRITTEN ADDITION

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X ACHIEVE EXCELLENCE

YEAR 5

Expanded column addition for money leading to compact column addition for adding several amounts of money

e.g. £14·64 + £28·78 + £12·26

	£14	60p	4p
	£28	70p	8р
+	£12	20p	6р
_	£55	60p	8p
	£1	10p	

Compact column addition to add pairs of 5-digit numbers Continue to use column addition to add towers of several larger

numbers

Use compact addition to add decimal numbers with up to 2 decimal places

e.g. 15.68 + 27.86

	15 .68
+	27.86
_	43 .54
	11 .1

Add related fractions

- - e.g. 3/4 + 1/8 = 7/8

YEAR 6

Compact column addition for adding several large numbers and decimal numbers with up to 2 decimal places Compact column addition with money e.g. $\pounds 14.64 + \pounds 28.78 + \pounds 12.26$

	£14.64
	£28.78
+	£12.26
_	£55.68
_	11 .1

Add unlike fractions,	includina	mixed	numbers
, laa armite maetierie,	moraamig	1111/000	1101110010

	e.g. 1/4 + 2/3= 11/12
 _	e.g. 2 1/4 + 1 1/3 = 3 7/12



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YEAR 3

Taking away

Use place value to subtract

e.g. 348 – 300

e.g. 348 – 40 e.g. 348 – 8



Take away multiples of 10, 100 and £1 e.g. 476 - 40 = 436e.g. 476 - 300 = 176e.g. $\pounds 4.76 - \pounds 2 = \pounds 2.76$ Partitioning e.g. 68 - 42 as 60 - 40 and 8 - 2e.g. $\pounds 6.84 - \pounds 2.40$ as $\pounds 6 - \pounds 2$ and 80p - 40p







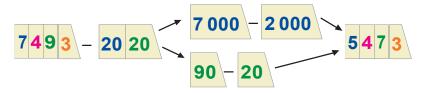
YEAR 4

Taking away

Use place value to subtract e.g. 4748 – 4000



Take away multiples of 10, 100, 1000, £1, 10p or 0.1 e.g. 8392 - 50e.g. 6723 - 3000e.g. £3.74 - 30pe.g. 5.6 - 0.2Partitioning e.g. £5.87 - £3.04 as £5 - £3 and 7p - 4pe.g. 7493 - 2020 as 7000 - 2000 and 90 - 20



Count back

e.g. 6482 - 1301 as 6482 - 1000 (5482) - 300 (5182) - 1 = 5181 Subtract near multiples of 10, 100, 1000 or £1 e.g. 3522 - 1999 e.g. £34.86 - £19.99



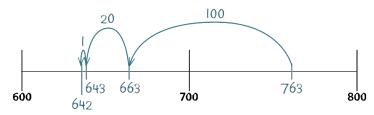
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YEAR 3

Count back in 100s, 10s then 1s e.g. 763 – 121 as 763 – 100 (663) – 20 (643) – 1 = 642

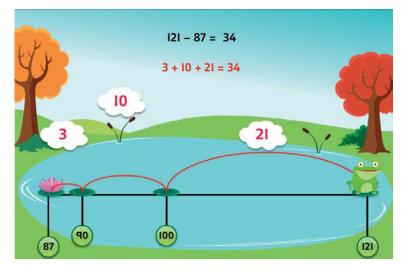


Subtract near multiples of 10 and 100 e.g. *648 – 199* e.g. *86 – 39*

Counting up

Find a difference between two numbers by counting up from the smaller to the larger

e.g. 121 – 87

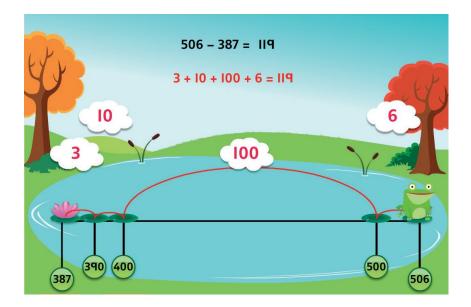


YEAR 4

Counting up

Find a difference between two numbers by counting up from the smaller to the larger

e.g. 506 – 387 e.g. 4000 – 2693





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YEAR 3

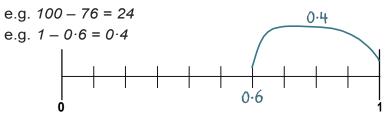
Using number facts Know pairs which total each number to 20 e.g. 20 - 14 = 6Number bonds to 100 e.g. 100 - 48 = 52e.g. 100 - 35 = 65

Subtract using number facts to bridge back through a 10 e.g. 42 - 5 = 42 - 2 (40) - 3 = 37

YEAR 4

Using number facts

Number bonds to 10 and 100 and derived facts



Number bonds to £1 and £10 e.g. $\pounds 1 \cdot 00 - 86p = 14p$ e.g. $\pounds 10 \cdot 00 - \pounds 3 \cdot 40 = \pounds 6 \cdot 60$



STRATEGIES AND METHODS OF WRITTEN SUBTRACTION

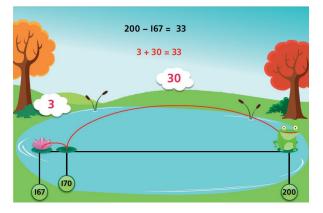
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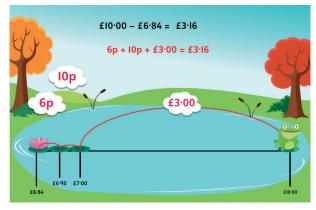
ACHIEVE EXCELLENCE

YEAR 3

Develop counting up subtraction e.g. 200 – 167



Use counting up subtraction to find change from £1, £5 and £10 e.g. $\pounds 10.00 - \pounds 6.84$



Recognise complements of any fraction to 1

-	-	e.g. 1 – 1/4 = 3/4
_	_	e.g. 1 – 3/5 = 2/5

YEAR 4

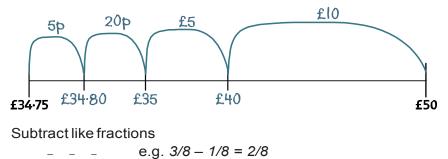
Expanded column subtraction with 3- and 4-digit numbers e.g. 726 - 358

	790	1 ₁₀ 20	1 Ø
-	300	50	8
	300	60	8

Begin to develop compact column subtraction e.g. 726 – 358

Use counting up subtraction to find change from £10, £20, £50 and £100

e.g. Buy a computer game for £34.75 using £50





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ACHIEVE EXCELLENCE

YEAR 5

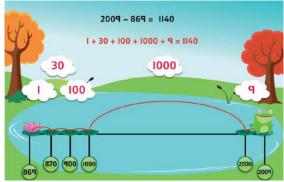
Taking away

Use place value to subtract decimals e.g. 4.58 - 0.08e.g. 6.26 - 0.2Take away multiples of powers of 10 e.g. $15\ 672 - 300$ e.g. 4.82 - 2 e.g. 2.71 - 0.5e.g. 4.68 - 0.02Partitioning or counting back e.g. 3964 - 1051e.g. 5.72 - 2.01Subtract near multiples of 1, 10, 100, 1000, 10 000 or £1 e.g. $86\ 456 - 9999$ e.g. 3.58 - 1.99

Counting up

Find a difference between two numbers by counting up from the smaller to the larger

e.g. £12·05 - £9·59 e.g. 2009 - 869



YEAR 6

Taking away

Use place value to subtract decimals e.g. $7 \cdot 782 - 0 \cdot 08$ e.g. $16 \cdot 263 - 0 \cdot 2$ Take away multiples of powers of 10 e.g. $132\ 956 - 400$ e.g. $686\ 109 - 40\ 000$ e.g. $7 \cdot 823 - 0 \cdot 5$ Partitioning or counting back e.g. 3964 - 1051e.g. $5 \cdot 72 - 2 \cdot 01$ Subtract near multiples of powers of 10 e.g. $360\ 078 - 99\ 998$ e.g. $12 \cdot 831 - 0 \cdot 99$



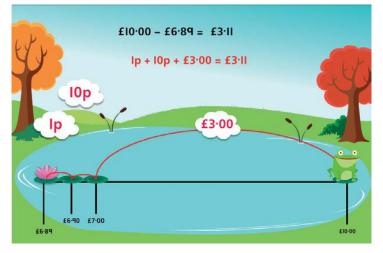
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YEAR 5

Find change using shopkeepers' addition e.g. *Buy a toy for £6.89 using £10.00*



Find a difference between two amounts of money by counting up

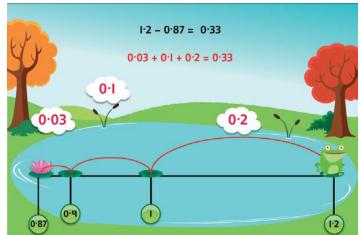
Using number facts

Derived facts from number bonds to 10 and 100 e.g. 2 - 0.45 using 45 + 55 = 100e.g. 3 - 0.86 using 86 + 14 = 100



e.g. £4·00 - £3·86 e.g. £100 - £66 using 66 + 34 = 100 Find a difference between two decimal numbers by counting up from the smaller to the larger e.g. $1 \cdot 2 - 0 \cdot 87$

Countingup



YEAR 6

Using number facts

Derived facts from number bonds to 10 and 100 e.g. 0.1 - 0.075 using 75 + 25 = 100 e.g. 5 - 0.65 using 65 + 35 = 100



Number bonds to £1, £10 and £100 e.g. £7·00 – £4·37 e.g. £100 – £66·20 using 20p + 80p = £1 and £67 + £33 = £100