Key Stage 1 – Subtraction

<u>Y1</u>

Through practical and meaningful contexts and informal written methods.

• We made 6 cakes. We ate 2 of them.

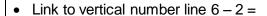
How many cakes are left?

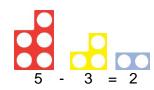


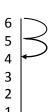














- Find the difference within 20.
- Represent and use number bonds within 20.
- Record using subtraction (-) and equals signs (=)
- Derive related facts up to 20.

$$5 - 2 = \square$$
 $\square = 5 - 2$
 $5 - \square = 3$ $3 = \square - 2$
 $\square - 2 = 3$ $3 = 5 - \square$
 $\square - \square = 3$ $3 = \square - \square$



• Counting back on a 100 square and a vertical number line.

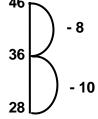
National Curriculum requirements:

Subtract 1 digit and 2 digit numbers up to 20, including 0. Represent and use number bonds and related subtraction facts.

Y2

Through practical and meaningful contexts.

- Fluent recall of bonds to 20 and within 20.
- Derive and use related facts up to 100
 e.g. 10 7 = 3 so 100 70 = 30.
- Counting back by partitioning second number. Subtract the ones first to be in line with columnar subtraction



• Find the difference by counting up (only when the difference is small). 23 - 18 = 5

- Recognise and use the inverse relationship between addition and subtraction
- Show that subtraction is not commutative (done in any order)
- Progressing to the partitioned columnar method in preparation for year 3
- Subtraction of money, including change.

National Curriculum requirements:

(using concrete objects, pictorial representations and mentally)

Subtract 2 digit numbers and ones.

Subtract 2 digit number and tens.

Subtract two 2 digit numbers.

Subtract three 1 digit numbers.

Key Stage 2 - Subtraction

Y3

• Continue with vertical number line subtraction progressing to the expanded columnar subtraction method.

89-35 = 54 80 + 9
$$- 30 + 5 = 50 + 4 = 54$$

 Introduce exchanging through the expanded columnar subtraction method.



Progressing on to compact columnar subtraction.

TO	нто	ТО
4 7	8 6 4	⁴ 5 ¹ 1
<u>- 23</u>	<u>- 621</u>	_
24	2 4 3	<u>- 3 6</u> <u>1 5</u>

- Emphasise value of digit, e.g. 4 tens subtract 2 tens = 2 tens. Use the correct language for subtraction i.e. exchange rather than borrow.
- · Subtract amounts of money to give change.

Video clips:

Subtraction - teaching children to consider the most appropriate methods before calculating

Introducing partitioned column subtraction method, from practical to written

National Curriculum requirements:

Subtract numbers with up to 3 digits using the formal written method of columnar subtraction.

Y4

• Continue with partitioned columnar subtraction progressing to compact columnar subtraction.

HTO H TO $^{3}\cancel{A}^{1}$ 3 7 $^{3}\cancel{A}^{12}\cancel{A}^{12}$ 2 -182 -187 255 245	H T O 56 916 14 - 3 4 7 - 2 5 7	Th H T O 8 ³ ¼ ¹¹ ½ ¹ 6 - 2 1 7 7 6 2 4 9
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- Estimate and use inverse operations to check answers to a calculation.
- · Subtract amounts of money using columnar method.

Video clips:

<u>Subtraction - teaching children to consider the most appropriate</u> methods before calculating

<u>Introducing partitioned column subtraction method, from practical to written</u>

Moving to the compact column method of subtraction

National Curriculum requirements:

Subtract numbers up to 4 digits using the formal written method of columnar subtraction.

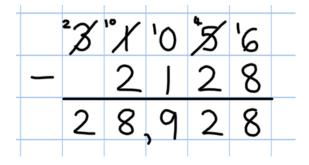
Key Stage 2 – Subtraction

Y5

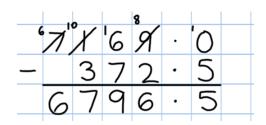
Y

• Continue with compact columnar subtraction, including subtraction of decimals.

 Continue with compact columnar subtraction, including subtraction of decimals.



	°X	" \$	Ø,	6	9	9	
_		8	9	,9	4	9	
		6	0	7	5	0	
				•			



	Y	jø	'5	•	³K	4	9	kg
J			6	•	0	8	0	ka
		6	9	•	3	3	9	ko
								~

• Use rounding to check answers to calculations and to determine, in the context of a problem, levels of accuracy.

• Use estimation to check answers to calculations and to determine, in the context of a problem, levels of accuracy.

Video clip:

Moving to the compact column method of subtraction

National Curriculum requirements:

Subtract numbers with more than 4 digits.

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Subtract numbers with more than 4 digits.