Key Stage 2	Addition and Subtraction

Year 3	Add and subtract numbers mentally, including: a three-digit number and ones ; a three-digit number and tens ; a three-digit number and hundreds. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. Estimate the answer to a calculation and use inverse operations to check answers. Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.
Year 4	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate Estimate and use inverse operations to check answers to a calculation Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
Year 5	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Add and subtract numbers mentally with increasingly large numbers. Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
Year 6	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

Vocabulary

Put together, add, plus, altogether, total, take away, subtract, distance between, difference between, more than and less than, sum, difference, increase, decrease, fewer.
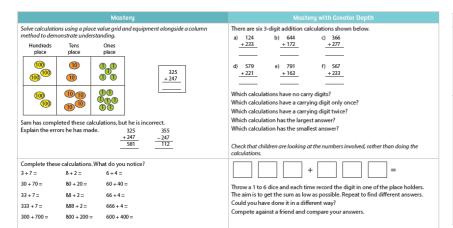
Strategies

Expanded Column Method; Compact Column Method.

Strategies from KS1 may be used where appropriate to support transition to KS2 strategies and to support mental addition and subtraction.

$353 + 268 = 621$

$300 + 50 + 3$
$200 + 60 + 8$
$600 + 20 + 1 = 621$
$100 \quad 10$

$457 - 226 = 231$

$400 + 50 + 7 -$
$200 + 20 + 6$
$200 + 30 + 1$
$= 231$

$534 - 265 = 269$

$500 + 30 + 4 -$
$200 + 60 + 5$
$200 + 60 + 9 = 269$

789 + 642 becomes

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    7  8  9
 +  6  4  2
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    1  4  3  1
       1  1
```

Answer: 1431

874 – 523 becomes

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    8  7  4
 -  5  2  3
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    3  5  1
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Answer: 351

932 – 457 becomes

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  8  12  1
  9   3  2
- 4   5  7
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  4   7  5
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Answer: 475