| Key Vocabulary |  | Addition and | action M | hods |
| :---: | :---: | :---: | :---: | :---: |
| Add | Add 4-digit numbers |  | Subtract 4-digit numbers |  |
| Total | No exchange |  | No exchange |  |
| Plus |  |  |  |  |
| Sum | $\begin{array}{r}5162 \\ +3427 \\ \hline\end{array}$ | Starting with the ones, add each column in turn. | $\begin{array}{r} 5789 \\ -3421 \end{array}$ | Starting with the ones, subtract |
| More |  |  | $\overline{2368}$ | each column in turn. |
| Altogether |  |  |  |  |  |
| Difference | One exchange |  | One exchange |  |
| Subtract |  | Starting with the ones, add each column in turn. When adding | $\begin{aligned} & 61 \\ & 5749 \end{aligned}$ | Starting with the ones, subtract each |
| Less | 5162 +3497 |  |  | column in turn. When subtracting 4 |
| Minus | $\begin{array}{r} +3497 \\ \hline 8659 \end{array}$ | $=1$ hundred +5 tens | $-3471$ | make: |
| Take away | $1$ | Place 1 hundred under the hundreds answer and 5 tens in the answer. | $2278$ | 14 tens -7 tens $=7$ tens |
| Mentally, Orally |  |  |  |  |
| Column Addition | Multiple exchanges |  | Multiple exchanges |  |
| Column Subtraction |  |  |  |  |  |
| Exchange | $\begin{array}{r} 5864 \\ +3497 \end{array}$ | Starting with the ones, add each | $\begin{aligned} & 6131 \\ & 5<4,2 \end{aligned}$ | Starting with the ones, subtract |
| Estimate | $9361$ | column in turn. Exchange tens, hundreds and/ or thousands as | $-3476$ | tens, hundreds and/ or thousands |
| Inverse operation | 111 | required. | 2266 |  |
| Solve problems | Efficient subtraction |  |  |  |
| Number facts | Calculate 6000-3617 = 2383 |  |  | -2000 |
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## Addition and Subtraction

Knowledge Organiser
Add and Subtract 1s, 10s, 100s, 1000s


Add 2 thousands $=5124$
Add 5 hundreds $=5624$
Subtract 2 tens $=5604$
Add 5 ones $=5609$

## Here is the number 6708

| Thousands | Hundreds | Tens | Ones |
| :---: | :---: | :---: | :---: |
| 6 | 7 | 0 | 8 |

Add 3 thousands $=9708$
Subtract 4 hundreds $=9308$
Add 5 tens $=9358$
Subtract 7 ones $=9351$
Crossing ones, tens or hundreds

| $5392+4$ tens $=5432$ | crossing tens |
| :--- | :--- |
| $5126-600=4526$ | crossing hundreds |

When crossing ones, tens or hundreds, more than one digit will change.
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## Round to Estimate

$1635+386=2021$
Round to the nearest ten
$1640+390=2030$
Round to the nearest hundred
$1600+400=2000$

Both give a reasonable estimate,
but rounding the nearest ten is more accurate.

$$
9362-5729=3622
$$

Round to the nearest hundred $9400-5700=3700$

Round to the nearest thousand $9000-6000=3000$

Rounding to the nearest
hundred is much more accurate in this case.

## Checking Strategies

$$
\begin{array}{|l|l|}
\hline 1549+2688=4237 & 2688+1549=4237 \\
\hline 4237-1549=2688 & 4237-2688=1549 \\
\hline
\end{array}
$$

## Adding in a different order

$420+372+280=$

## Change to

$420+280+372=$
As $420+280=700$
(because $42+28=70$ )
$420+280+372=700+372=1072$

