

Year 4 Addition and Subtraction Knowledge Organiser.

Addition and Subtraction	Knowledge Organiser	
Key Vocabulary	Addition and Subtraction Methods	
Add	<p>Add 4-digit numbers</p> <p>No exchange</p> $\begin{array}{r} 5162 \\ +3427 \\ \hline 8589 \end{array}$ <p>Starting with the ones, add each column in turn.</p> <p>One exchange</p> $\begin{array}{r} 5162 \\ +3497 \\ \hline 8659 \\ 1 \end{array}$ <p>Starting with the ones, add each column in turn. When adding 6 tens + 9 tens = 15 tens = 1 hundred + 5 tens Place 1 hundred under the hundreds answer and 5 tens in the answer.</p> <p>Multiple exchanges</p> $\begin{array}{r} 5864 \\ +3497 \\ \hline 9361 \\ 111 \end{array}$ <p>Starting with the ones, add each column in turn. Exchange tens, hundreds and/ or thousands as required.</p>	<p>Subtract 4-digit numbers</p> <p>No exchange</p> $\begin{array}{r} 5789 \\ - 3421 \\ \hline 2368 \end{array}$ <p>Starting with the ones, subtract each column in turn.</p> <p>One exchange</p> $\begin{array}{r} 61 \\ 5749 \\ - 3471 \\ \hline 2278 \end{array}$ <p>Starting with the ones, subtract each column in turn. When subtracting 4 tens -7 tens, exchange 1 hundred to make: 14 tens - 7 tens = 7 tens</p> <p>Multiple exchanges</p> $\begin{array}{r} 6131 \\ 5742 \\ - 3476 \\ \hline 2266 \end{array}$ <p>Starting with the ones, subtract each column in turn. Exchange tens, hundreds and/ or thousands as required.</p>
Total		
Plus		
Sum		
More		
Altogether		
Difference		
Subtract		
Less		
Minus		
Take away		
Mentally, Orally		
Column Addition		
Column Subtraction		
Exchange		
Estimate		
Inverse operation		
Solve problems	Efficient subtraction	
Number facts	Calculate 6000 - 3617 = 2383	
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Addition and Subtraction

Knowledge Organiser

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

Here is the number 3124



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.

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

$$9400 - 5700 = 3700$$

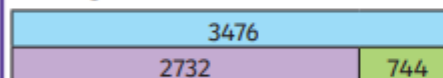
Round to the nearest thousand

$$9000 - 6000 = 3000$$

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

Checking Strategies

Using Inverse



$3476 - 744 = 2732$ can be checked using

$$2732 + 744 = 3476$$

This part whole shows the inverse calculations using these three numbers.



$1549 + 2688 = 4237$	$2688 + 1549 = 4237$
$4237 - 1549 = 2688$	$4237 - 2688 = 1549$

Adding in a different order

$$420 + 372 + 280 =$$

Change to

$$420 + 280 + 372 =$$

$$\text{As } 420 + 280 = 700$$

(because $42 + 28 = 70$)

$$420 + 280 + 372 = 700 + 372 = 1072$$