Addition and Subtraction

Knowledge Organiser

Key Vocabulary	Addition and Subtraction Methods		
Add	Add 4-digit numbers	Subtract 4-digit numbers	
Total	No exchange	No exchange	
Plus Sum	5162 Starting with the ones, add	5789 Starting with the ones, subtract	
More	+3427 each column in turn. 8589	- 3421 each column in turn. 2368	
Altogether			
Difference	One exchange	One exchange	
Subtract Less	51 6 2 Starting with the ones, add each column in turn. When adding	6 1 5749 Starting with the ones, subtract each column in turn. When subtracting 4	
Minus	+34 9 7 6 tens + 9 tens = 15 tens 86 5 9 = 1 hundred + 5 tens	- 34 7 1 tens -7 tens, exchange 1 hundred to 22 7 8 make:	
Take away Mentally, Orally	¹ Place 1 hundred under the hundreds answer and 5 tens in the answer.	14 tens – 7 tens = 7 tens	
Column Addition Column Subtraction	Multiple exchanges	Multiple exchanges	
Exchange	5864 Starting with the ones, add each +3497 column in turn. Exchange tens.	6 ¹³¹ Starting with the ones, subtract 5742 areh column in turn Evelance	
Estimate	+3497 column in turn. Exchange tens, 9361 hundreds and/ or thousands as required.	each column in turn. Exchange <u>- 3476</u> tens, hundreds and/ or thousands 2266 as required.	
Inverse operation Solve problems	Efficient subtraction		
Number facts	Calculate 6000 - 3617 = 2383		

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Add and Subtract 1s, 10s, 100s, 1000s	Round to Estimate	
Here is the number 3124 1000 100 10 1 1 1 1000 100 10 1 1 1 Add 2 thousands = 5124 Add 5 hundreds = 5624 Subtract 2 tens = 5604 Add 5 ones = 5609 Here is the number 6708	 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.
Thousands Hundreds Tens Ones	Checking	Strategies
6708Add 3 thousands = 9708Subtract 4 hundreds = 9308Add 5 tens = 9358Subtract 7 ones = 9351Crossing ones, tens or hundreds5392 + 4 tens = 5432crossing tens5126 - 600 = 4526crossing hundredsWhen crossing ones, tens or hundreds, more than one digitwill change.Visit twinkl.com	Using Inverse 3476 3476 2732 744 3476 - 744 = 2732 can be checked using 2732 + 744 = 3476 This part whole shows the inverse calculations using these three numbers. 4237 4237 2688 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 = As 420 + 280 = 700 (because 42 + 28 = 70) 420 + 280 + 372 = 700 + 372 = 1072