Addition and Subtraction

Knowledge Organiser

6000

Madellon and Justin delicit						
Key Vocabulary	Addition and Subtraction Methods					
Add	Add 4-digit numbers		Subtract 4-digit numbers			
Total	No exchange			No exchange		
Plus		J C		, c		
Sum	5162 +3427	Starting with the ones, ac	bk	5789 - 3421	Starting with the ones, subtract	
More	8589	each column in turn.		2368	each column in turn.	
Altogether						
Difference	One exchange		One exchange			
Subtract		Starting with the ones, add	l each	6 1	Starting with the ones, subtract each	
Less	51 6 2 +34 9 7 86 5 9	column in turn. When adding	.ng	5 74 9	column in turn. When subtracting 4	
Minus		6 tens + 9 tens = 15 tens = 1 hundred + 5 tens		- 34 7 1 22 7 8	tens -7 tens, exchange 1 hundred to make:	
Take away		Place 1 hundred under the	hundreds	2270	make: 14 tens – 7 tens = 7 tens	
Mentally, Orally		answer and 5 tens in the a			The content of the co	
Column Addition	Multiple exchanges			Multiple exchanges		
Column Subtraction						
Exchange	5864	Starting with the ones, add		6 ¹³ 1 574 2	Starting with the ones, subtract	
Estimate	+3497 9361	column in turn. Exchange hundreds and/ or thousand		- 3476	each column in turn. Exchange tens, hundreds and/ or thousands	
Inverse operation	11 1	required.		2266	as required.	
Solve problems	Efficient subtraction					
Number facts						
twinkl visit twinkl.com	Calculate 60	00 - 3617 = 2383	3	80 300	2000	

3617 3620 3700 4000

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

Round to Estimate

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

5**39**2 + **4** tens = 5**43**2 crossing tens

5126 – **6**00 = **45**26 crossing hundreds

When crossing ones, tens or hundreds, more than one digit will change.



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

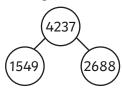
Using Inverse

3476 2732 744

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 =

As 420 + 280 = 700

(because 42 + 28 = 70)

420 + 280 + 372 = 700 + 372 = 1072