

## Maths Knowledge Organiser—Year 4

## **Addition and Subtraction**

**Key Vocabulary:** 

Add

Key Knowledge:

Altogether	Addition and Subtraction Methods		Round to Estimate	
Allogethei			Kouna to Estimate	
Subtract	Add 4-digit numbers	Subtract 4-digit numbers	1635 + 386 <b>-</b> 2021	9362 5729 <b>-</b> 3622
	No exchange	No exchange	Round to the nearest ten	Round to the nearest hundred
ake away	5162	5789	1640 + 390 - 2030	9400 - 5700 <b>-</b> 3700
	Starting with the ones, add +3427 each column in turn.	- 3421 each column in turn.	Round to the nearest hundred	Round to the nearest thousand
quals	8589	2368	1600 + 400 <b>-</b> 2000	9000 - 6000 - 3000
otal				
otai	One exchange	One exchange	Both give a reasonable estimate,	Rounding to the nearest
art	Starting with the ones, add each	6.1 Starting with the ones, subtract each	but rounding the nearest ten is	hundred is much more accurate in
	5162 column in turn. When adding +3497 6 tens + 9 tens = 15 tens	column in turn. when subtracting 4	more accurate.	this case.
Vhole	+3497 6 tens + 9 tens = 15 tens 8659 - 1 hundred + 5 tens	- 3471 tens -7 tens, exchange 1 hundred to 2278 make: 14 tens - 7 tens - 7 tens		
xchange	<sup>1</sup> Place 1 hundred under the hundreds		Checking Strategies	
inclidinge	answer and 5 tens in the answer.		Using Inverse	Adding in a different order
stimate	Multiple exchanges	Multiple exchanges	3476	420 + 372 + 280 <b>-</b>
			2732 744	Change to
iverse	5864 Starting with the ones, add each +3497 column in turn. Exchange tens,	6 <sup>131</sup> 5 <sup>132</sup> Starting with the ones, subtract each column in turn. Exchange	3476 - 744 = 2732 can be checked using 2732 + 744 = 3476	420 + 280 + 372 <b>-</b>
peration	9361 hundreds and/ or thousands as	- 3476 tens, hundreds and/ or thousands	This part whole shows the inverse	
	11 required.	2266 as required.	calculations using these three numbers.	As 420 + 280 - 700
lace value			(4237)	(because 42 + 28 <b>-</b> 70)
olumn method	Efficient subtraction			420 + 280 + 372 - 700 + 372 - 1072
Sidilin incentou		3 80 300 2000	(1549) (2688)	

6000

1549 + 2688 = 4237 2688 + 1549 = 4237

4237 - 1549 = 2688 4237 - 2688 = 1549

3617 3620 3700 4000

1

KKK

Calculate 6000 - 3617 = 2383