

Castlefield School- Maths

Year: Four

Topic: Add and subtract within 10000

Theme: Addition and subtraction

Key concepts and questions

Additional and the second second of the second seco	1-0	·					
<u>Why do you need to add from the</u>		Th	н				
Always add from the 1s first because				3			
you may need to carry by exchan	+	2	4				
In this example 10 ones are exchanged		5	7				
in this example, to ones are exchanged							
for 1 ton Th		н		Т			
			•	00			
6+5 =11 ones=1 ten and 1 one.				00			
	0	00	•	00	1		

Why do you need to subtract from the 1s?

When subtracting, make sure the whole is on top and the part underneath. Subtract from the ones first because you may need to borrow by exchanging. In this example, 1 ten is exchanged for 10 ones.



What is bridging?

Bridging is adding or subtracting

across a multiple of 10, 100 or 1000, e.g. 137+6. 7+6 is > 10 so it will bridge the next multiple of 10. Use known number facts to help bridge.

Making connections

Addition and subtraction facts to 1000

Use addition and subtraction facts you know to 10, 100 and 1000 to help solve problems up to 10000.



This shows 9 - 7=2 90 - 70 = 20900 - 700 = 200 9000 - 7000 = 2000

Efficient methods

Use mental methods and known facts to choose the most efficient method for addition and subtraction. e.g. 135 + 7 could be done mentally but 1352 - 796 would be quicker and more accurate with column subtraction.

Key Vocabulary							
addition	subtraction	partition	place value				
ones	tens	hundreds	thousands				
exchange	Exchange in addition e.g. 10 ones for 1 ten. This is sometimes called carrying. Exchange in subtraction e.g. 1 ten for 10 ones. This is sometimes called borrowing.						
bar model	represent the whole/parts						
commutative	addition can be done in any order						
column method	use place value to + and -						
efficient	the quickest method						
estimate	an approximate calculation						
difference	finding a part						
total	finding a whole						
Representations							
Part whole model	(5275)	Number lines					

relate to each other and can be split into parts.

Column method Use knowledge of place value to add and subtract numbers in columns.

This one represents a

finding the difference (subtraction) question Luis

Bar model

1005 - 899

(2450) 1500 Τh Н Т 0 3 3 5 6 2 4 3 5 + 5 7 9 1

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2435

899	?	This one represents	
		an addition as it is	3356
1.005		finding the whole.	3330
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