

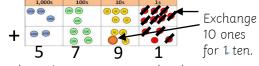
Castlefield School- Maths

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Key concepts and questions

Why must column addition and subtraction always begin from the ones column?

- In addition, you may need to carry by exchanging. For example, 10 ones for 1 ten or 10 tens for 1 hundred. 1 0000



- In subtraction, you may need to borrow by exchanging. For example, 1 hundred for 10 tens, 1 ten for 10 ones.
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What is bridging?

32266 Bridging is adding or subtracting across a multiple of 10, 100, 1 000, 10 000 or 100 000 e.g. 137+6. 7+6 is > 10 so it will bridge the next multiple of 10.

	Making connections				
Place Value	columns are li a O in a numb needs to be pu	HTO 5603 -192 411 e knowledge to ensure that ned up correctly. If there is per, this is a placeholder, it t in the correct column, tells us there are no tens.			
Efficient methods	choose the mo addition and s e.g. 135 + 7 co 1352 – 796 wo	se mental methods and known facts to noose the most efficient method for ddition and subtraction. g. 135 + 7 could be done mentally but 52 – 796 would be quicker and more ccurate with column subtraction.			

000 Year: 5				Theme: Addition and subtraction								
	Key Vocabulary											
	add		subtract		ones		tens					
	hundreds		thousands		ten thousands		column r	nethod				
	exchange		carrying.	n addition e.g. 10 ones for 1 ten. This is sometimes called n subtraction e.g. 1 ten for 10 ones. This is sometimes owing.								
	inverse 12+10=22 so 22-10=12 mentally In your head											
round Nearest 10, 100, 1 000, 10 000 and 100 000												
	estimate		Educated gue	SS.								
	totalThe wholefinding the differenceThe difference between 2 numbers											
	commutative	commutative Addition can be done either way e.g. 10 +2 and 2 + 10 both =12										
		Representations										
	<u>Bar models</u>		_	Part whole models – mental calculations								
	£2 £12.24 £20 - £12.24 <u>Numberlines</u>	? 4 = ?	8856 + 2	2579	45	23	40 ar	5 + 23) + 20 = nd 5+3 =) + 8 =	- 8			
	Help with co	70 unting on o g bridging	280 2 and back, and multiples of 10		9 5	<u>ds</u> 0 8 6 - 4	TTh Th 78 2 - 3 9 4 3	H T ⁶ 7 ¹ 0 4 1 2 9	O 6 5 1			