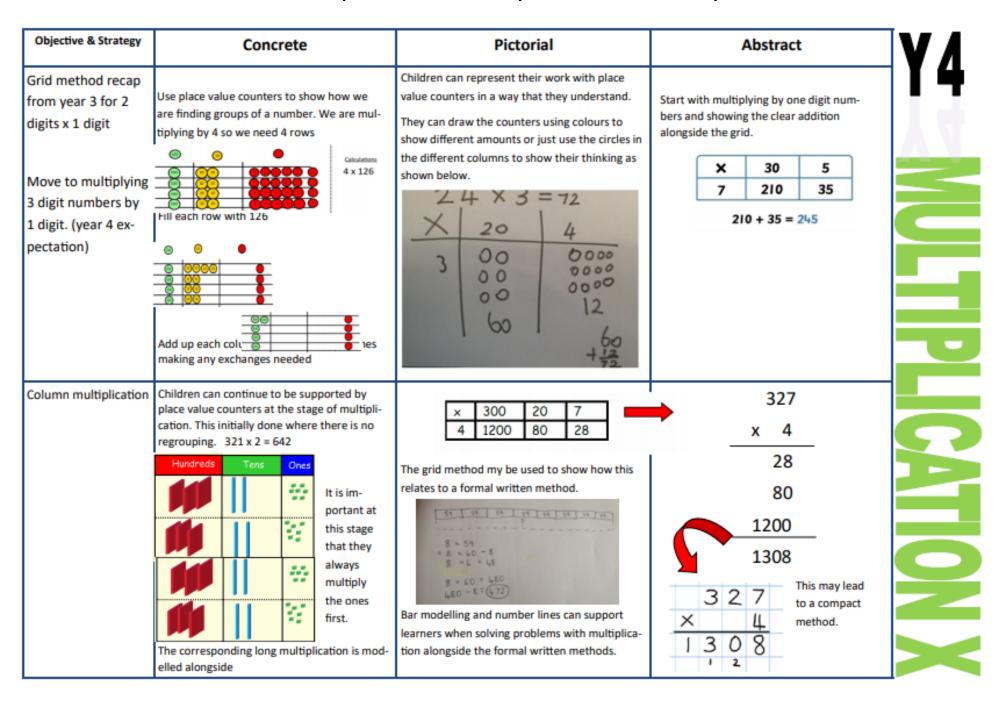
Objective & Strategy	Concrete  Children continue to use dienes or pv counters to add, exchanging ten ones for a ten and ten tens for a hundred and ten hundreds for a thousand.			Pictorial				Abstract
Y4—add numbers with up to 4 digits				• •	**	:	***	3517
	Hundreds	Tens	Ones	• •	•			+ 396
		00 0 0 0 1 1	0.00	7	1	5	1	3 7 1 3
		11111	::	Draw represe	ntations u	sing pv g	rid.	Continue from previous work to carry hundreds as well as tens.  Relate to money and measures.
75—add numbers with more than 4 digits. Add decimals with 2 dec- mal places, including money.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ecimal place value	e counters	2.37 + 8	nas	+ents	hundred &	72.8 +54.6 127.4 1 1
6—add several num- bers of increasing com- plexity	and model exchange for addition.  As Y5			As Y5			6	81,059 3668 15,301 +20,551 120,579
ncluding adding money, measure and decimals with different numbers of decimal points.								2 3 · 3 6   9 · 0 8 0

Objective &	Concrete	Pictorial	Abstract
Strategy			
Subtracting tens and ones  Year 4 subtract with up to 4 digits.  Introduce decimal subtraction through context of money	234 - 179  O O O O O O O O O O O O O O O O O O O	Children to draw pv counters and show their exchange—see Y3	2 x 5 4 - 1 5 6 2 1 1 9 2 Use the phrase 'take and make' for exchange
Year 5- Subtract with at least 4 dig- its, including money and measures. Subtract with decimal values, including mixtures of integers and decimals and aligning the decimal	As Year 4	Children to draw pv counters and show their exchange—see Y3	3   1   0   8   6
Year 6—Subtract with increasingly large and more complex numbers and decimal values.			**************************************



Objective &	Concrete	Pictorial	Abstract	
Strategy				
Divide at least 3 digit	96÷3 Tens Units	Students can continue to use drawn diagrams	Begin with divisions that divide equally with no remainder.	
numbers by 1 digit.	3 2	with dots or circles to help them divide numbers into equal groups.	no remainder.	
		into equal groups.	2 1 8	
Short Division	000		3	
	3 000 0	(00)(00)	4 8 7 2	
	000		Move onto divisions with a remainder.	
	Use place value counters to divide using the bus stop method alongside			
	© © © © Calculations		8 6 r 2	
	42÷3		3	
			5 4 3 2	
	42 + 3=	Encourage them to move towards counting in multiples to divide more efficiently.	Finally move into decimal places to divide th total accurately.	
	Start with the biggest place value, we are			
	sharing 40 into three groups. We can put 1		1 1 6	
	ten in each group and we have 1 ten left over.		1 4 . 6	
			3 5 5 1 1 . 0	
			3 3 3 1 1 . 0	
	9			
	We exchange this ten for ten ones and then		0663~5	
	share the ones equally among the groups.		8 5 53 50 29	
			0/3301	
	0000			
	We look how much in 1 group so the answer			
	is 14.			

Y4-6

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