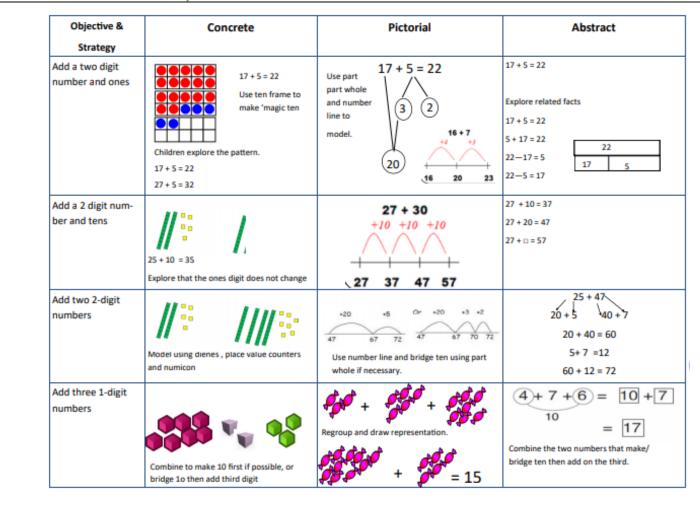


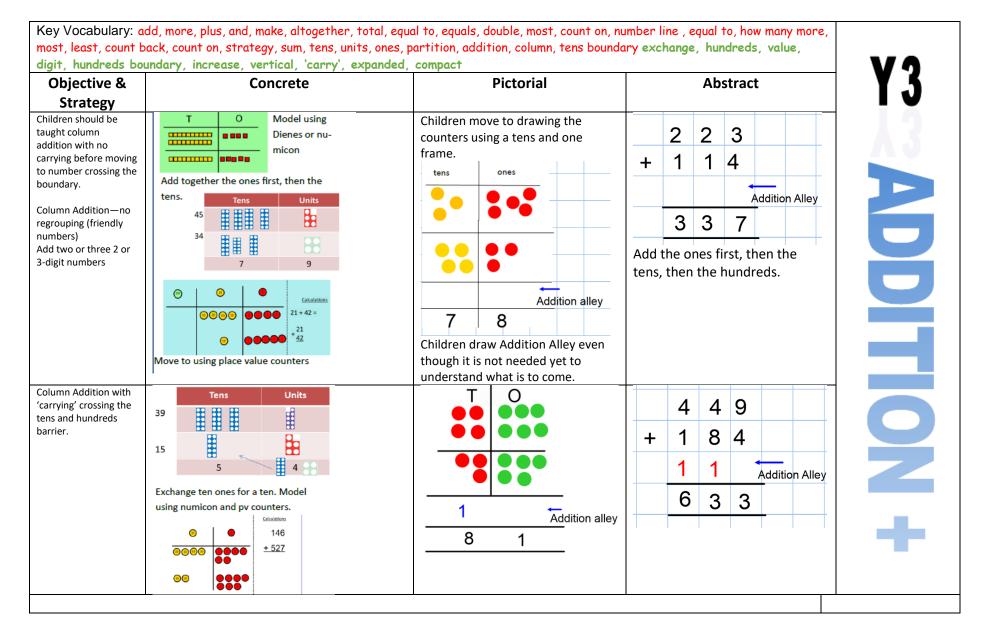
Key Vocabulary: add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line, equal to, how many more, most, least, count back, count on, strategy, sum, tens, units, ones, partition, addition, column, tens boundary

Objective &	Concrete	Pictorial	Abstract
Strategy			
Adding multiples of	50= 30 = 20		20 + 30 = 50
ten	11111		70 = 50 + 20
		3 tons + 5 tons = tons	40 + 🗆 = 60
	Model using dienes and bead strings	30 + 50 Use representations for base ten.	
Use known number facts	Children ex-		+ 1 = 16 16 - 1 =
	plore ways of making num-		1 + = 16 16 - =
Part part whole	LO bers within 20	+ = 20 20 - =	
	At a	+ = 20 20 - =	
Using known facts		$ \nabla_{i} _{\mathcal{H}} + \widehat{\psi}_{i} _{\mathcal{H}} = \widehat{\psi}_{i} $	3 + 4 = 7
	000 0 00 000 00	+ =	leads to
	+		30 + 40 = 70
		• • • • • • • •	leads to
		Children draw representations of H,T and O	300 + 400 = 700
Bar model		**	23 25
			?
	3 + 4 = 7	7 + 3 = 10	23 + 25 = 48

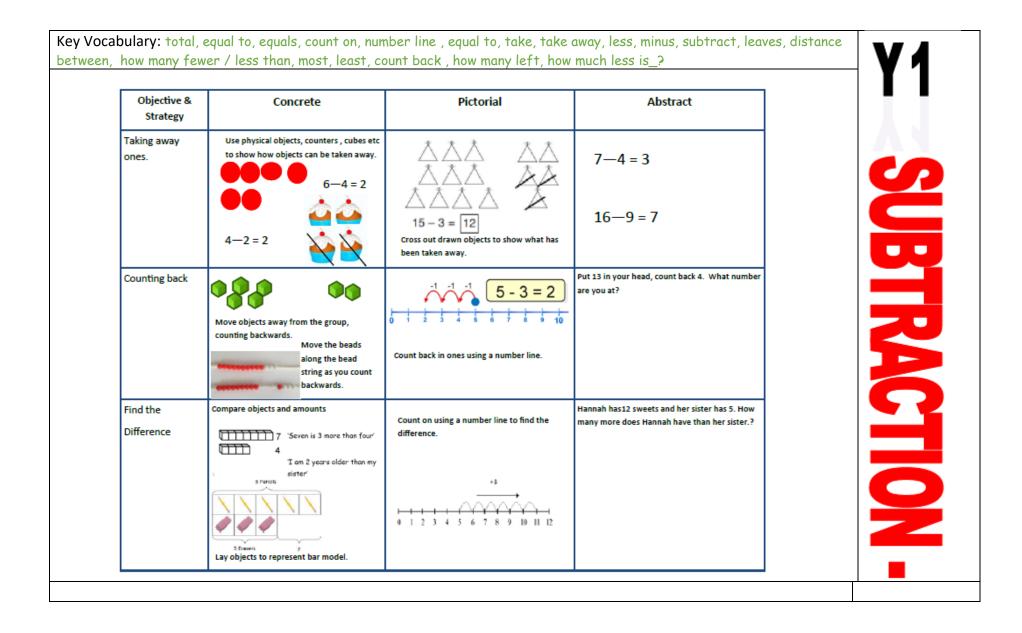
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Key Vocabulary: add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line, equal to, how many more, most, least, count back, count on, strategy, sum, tens, units, ones, partition, addition, column, tens boundary





Objective &	Concrete	Pictorial	Abstract
Strategy Y4—add numbers with up to 4 digits When addition alley has been introduced, it will continue to be used when using formal written method.	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.	Addition all Draw representations using pv grid.	Addition all Addition all Ad
Y5—add numbers with more than 4 digits. Add decimals with 2 decimal places, ncluding money.	As year 4 tens ones tenths hundredths tenths hundredths for a local state of the	2.37 + 81.79 tens ones tentes hundredtes 00 000 0 0000 0 0000 00000 0 0000 0 0000 00000 0 0000 0 0000 00000 0 0000 0 0000 00000 0 0 0000 0 0000 00000 0 0 0000 0 0 0000 00000 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Y6—add several numbers of increasing complexity Including adding money, measure and decimals with different numbers of decimal points.	As Y5	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3 . 3 6 1 9 . 0 8 0 9 . 7 7 0 1 . 3 0 0 1 . 5 1 1

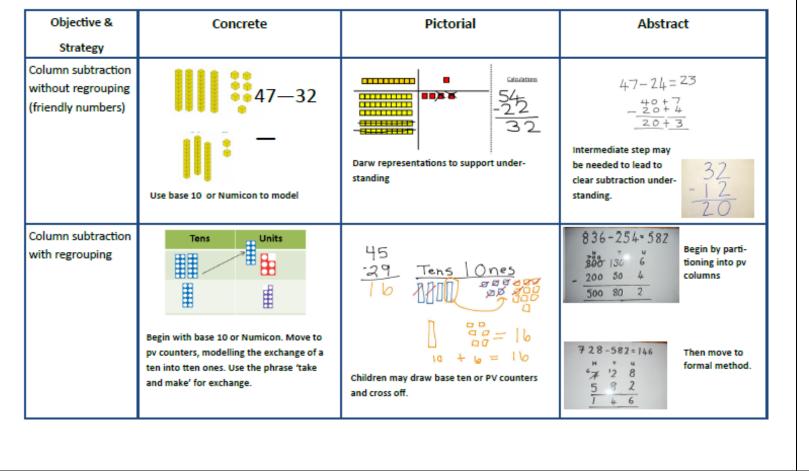


Objective & Strategy	Concrete	Pictorial	Abstract	
Represent and use number bonds and related subtraction facts within 20 Part Part Whole model	Link to addition. Use PPW model to model the inverse. If 10 is the whole and 6 is one of the arts, what s the other part? 10-6 = 4	Use pictorial representations to show the part.	Move to using numbers within the part whole model.	
Make 10	14—9 Make 14 on the ten frame. Take 4 away to make ten, then take one more away so that you have taken 5.	13-7 13-7=6 	16—8 How many do we take off first to get to 10? How many left to take off?	
Bar model			8 2	
	5—2 = 3		10 = 8 + 2 10 = 2 + 8 10-2 = 8 10-8 = 2	

Key Vocabulary: total, equal to, equals, count on, number line, equal to, take, take away, less, minus, subtract, leaves, distance between, how many fewer / less than, most, least, count back, how many left, how much less is_?difference, count on, strategy, sum, tens, units, ones, partition, column, tens boundary

Objective & Strategy	Concrete	Pictorial	Abstract
Regroup a ten into ten ones	Use a PV chart to show how to change a ten into ten ones, use the term 'take and make'	(1000 (1000 20 - 4 -	20—4 = 16
Partitioning to sub- tract without re- grouping. 'Friendly numbers'	34-13 = 21	Children draw representations of Dienes and cross off.	43—21 = 22
Make ten strategy Progression should be crossing one ten, crossing more than one ten, cross- ing the hundreds.	34-28 Use a bead bar or bead strings to model counting to next ten and the rest.	Vse a number line to count on to next ten and then the rest.	93—76 = 17
	-		

Y 2 BTRACTION Key Vocabulary: total, equal to, equals, count on, number line, equal to, take, take away, less, minus, subtract, leaves, distance between, how many fewer / less than, most, least, count back, how many left, how much less is_?difference, count on, strategy, sum, tens, units, ones, partition, column, tens boundary exchange, decrease, hundreds, value, digit, hundreds boundary, increase, vertical, 'carry', expanded, compact





Objective &	Concrete	Pictorial	Abstract
Strategy Subtracting tens and ones Year 4 subtract with up to 4 digits. Introduce decimal subtrac- tion through context of money	234 - 179	Children to draw pv counters and show their exchange—see Y3	2 × 5 4 - 1 5 6 2 1 1 9 2 Use the phrase 'take and make' for ex- change
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	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Year 6—Subtract with increasingly large and more complex numbers and decimal values.			$\begin{array}{c} 7 & 8 & 0, 6 & 9 & 9 \\ - & 8 & 9, 9 & 4 & 9 \\ \hline & 6 & 0, 7 & 5 & 0 \\ \hline & 7 & 3 & 6 & 0 & 8 & 0 \\ \hline & - & 3 & 6 & 0 & 8 & 0 \\ \hline & 6 & 9 & 0 & 3 & 3 & 9, & kg \end{array}$