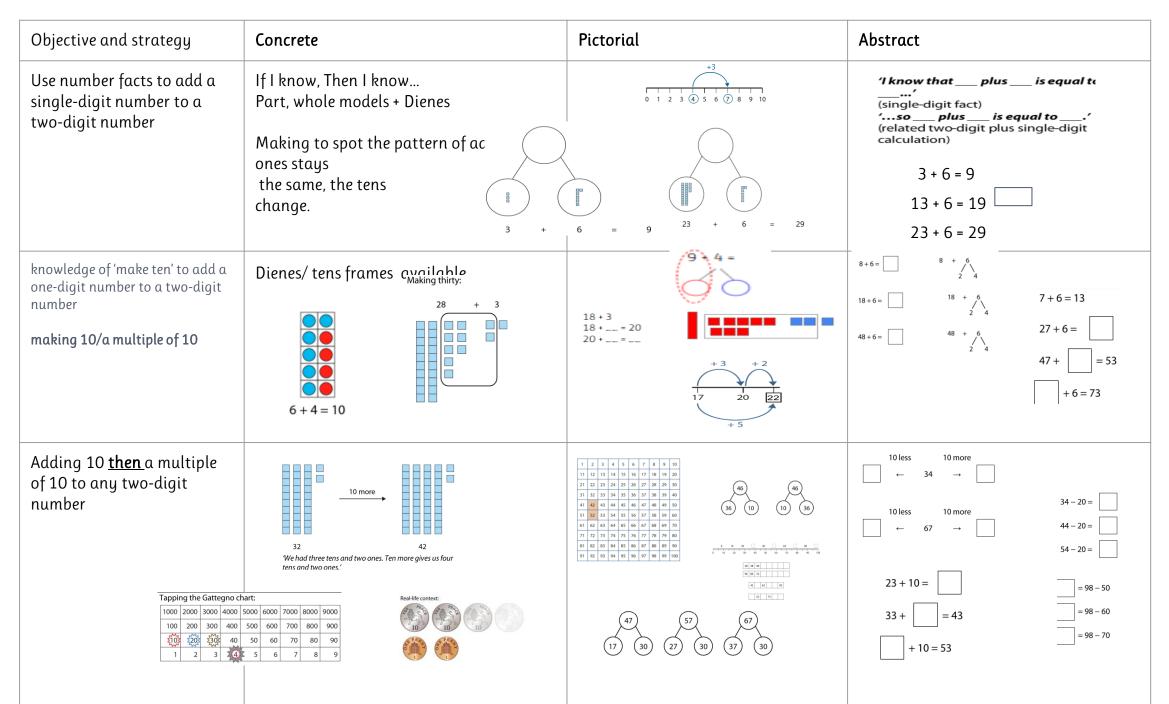
Y1 Addition

Y1 Addition

Y2 Addition

Objective and strategy	Concrete	Pictorial	Abstract
Adding 3 addends Including three addends that make 10	Practically making first then now stories.	2 3 5	3+5+2=10 $5+2+3=10$
Add two numbers that bridge through 10.	Tens frames to subitise making 10 7+5=7+3+2=10+2	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$	2 + 4 + 3 =
Adding 1 to a two-digit number within 100 This includes crossing the tens boundary.		30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	$53 + 1 = 54$ $35 = \boxed{ + 1}$ $35 = 1 + $ one one less more



2 Addit

Objective and Strategy	Concrete	Pictorial	Abstract
Pupils add two numbers bridging across 10	Recap Year 2	es and part-part-whole model: 45	Children write the calculation and use known strategies to solve it mentally.
		$7 + 3 = 10$ $10 + 2 = 12$ $480 + 50 = 530$ $400 \cdot 80$	7 + 5 = 12

Y3 Addition

Objective and strategy	Concrete	Pictorial	Abstract
Pupils use column addition to add two 2 digit numbers Repeat the method for adding two 2 digit numbers to add 2 3 digit numbers.	Children use dienes to physically add two 2 digit numbers. 25 + 47 = 72 First we add the ones. 5 + 7 = 12 Then we add the tens. 2 tens plus 4 tens is 6 tens. We also need to add 1 ten from the regrouping. There are 7 tens altogether.	Children draw a representation. Children can draw a representation of the grid to further support their understanding, carrying the ten underneath the line	Start by portioning to show the exchange. $ \begin{array}{r} 20 + 5 \\ \underline{40 + 8} \\ 60 + 13 = 73 \end{array} $ Move onto the formal method. $ \begin{array}{r} 536 \\ \underline{+85} \\ \underline{621} \\ 11 \end{array} $

Y3 Addition

Objective and Strategy	Concrete	Pictorial	Abstract
Pupils subtract numbers that bridge 10	Children place the numbers on a tens frame and use this to physically subtract by removing the counters. 15 - 9 5 4 15 - 9 = 6 Children use a number line to subtract.	Children partition the number and subtract until they reach 10 and then subtract the remaining amount. 12 - 4 2 2 10 10 -2 = 8 12 -4 = 8 Children represent the numbers using bar models and part whole models.	Children write the calculation and subtract mentally using known strategies. 12 - 4
Pupils subtract multiples of 10 bridging 100		530 - 50 = 480 400 130	

Y3 Subtraction

Y3 Subtraction

Objective and Strategy	Concrete	Pictorial	Abstract
Subtract with up to 4 digits. using column subtraction	234 - 179 O O O O O O O O O O O O O O O O O O	Children to draw place value counters and show their exchange	2 x 5 4 - 1 5 6 2 1 1 9 2

Y4 Subtraction

Objective and strategy	Concrete	Pictorial	Abstract
Subtract with at least 4 digits, including money and measures	As Y4	As Y4	"X" X 6 9 · 0 Use zeros for 3 7 2 · 5 placeholders 6 7 9 6 · 5

Y5 Subtraction

Objective and strategy	Concrete	Pictorial	Abstract
Subtract with increasingly large and more complex numbers and decimal values using formal methods.			1/10/5 · 3/4 /1 9 kg 36 · 080 kg 69 · 339 kg

Y6 Subtraction