



Topic: Addition & Subtraction

Year: 3

Strand: Number

What should I already know?

In Year 1 & 2 you learned to:

Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.

Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers.

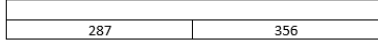
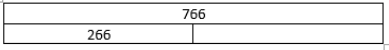
Show that the addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.

Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods.

Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.



What will I know by the end of the unit?

$300 + \underline{\quad} = 800$	500
Sam has 342 stickers. He buys 5 more. How many does he have now?	
$123 = 8 + \underline{\quad}$	115
$16 + 53 =$	69
$46 - 19 =$	27
$86 + 31 =$	119
$376 - 40 =$	336
Use column addition to work out: $252 + 328 =$	
Complete the bar model 	643
Complete the bar model 	500

	Key Vocabulary
Calculation	A calculation is something that you think about and work out mathematically.
Calculate	To work out an answer.
Addition	Finding the total, or sum, by combining two or more numbers.
Subtraction	Taking one number away from another.
Sum, Total	The result of adding two or more numbers.
Difference, Minus, Less	The result of subtracting one number from another.
Column addition	Addition by writing one number below the other and then adding one column at a time.
Column subtraction	Subtraction by writing one number below the other and then subtracting one column at a time.
Exchange	To swap 10 ones for 1 ten or 10 tens for one hundred.
Operation	A mathematical process.
Estimate	To find a value that is close enough to the right answer, usually with some thought or calculation involved.
Inverse	Opposite in effect. The reverse of.

Objectives

Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three digit number and hundreds.

Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.

Estimate the answer to a calculation and use inverse operations to check answers.

Solve problems, including missing number problems,