Addition - Year 5

Selected National Curriculum Programme of Study Statements Pupils should be taught to:

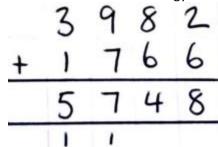
- add and subtract whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction)
- solve problems involving numbers up to three decimal places.
- Interpret negative numbers in context, count forwards and backwards with positive and negative numbers through zero.

The Big Ideas (NCETM)

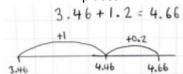
Before starting any calculation is it helpful to think about whether or not you are confident that you can do it mentally. For example, 3689 + 4998 may be done mentally, but 3689 + 4756 may require paper and pencil. Carrying out an equivalent calculation might be easier than carrying out the given calculation. For example, 3682 - 2996 is equivalent to 3686 - 3000 (constant difference).

Stage 1

Column addition with numbers up to 4-digits. Ensure number sentences chosen would not be more suited to an efficient strategy.



Adding involving numbers up to 1 and 2 decimal places.



Column addition with numbers with more than 4-digits.
Ensure number sentences chosen would not be more

suited to an efficient strategy.

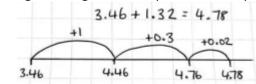
2 3 9 7 2

+ 4 5 6 3 9

6 9 6 1 1

Adding involving numbers up to 2 decimal places.

Stage 2



Adding with negative numbers (linking with temperature).

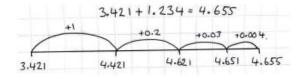


End of year expectation

Multistep problem in context, deciding which methods to use and why.

2 4 4 7 8 + 6 6 6 4 0 9 1 1 1 8

Adding involving numbers up to 3 decimal places.



Subtraction – Year 5

Selected National Curriculum Programme of Study Statements Pupils should be taught to:

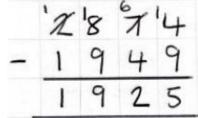
- add and subtract whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction)
- solve problems involving numbers up to three decimal places
- Interpret negative numbers in context, count forwards and backwards with positive and negative numbers through zero.

The Big Ideas (NCTEM)

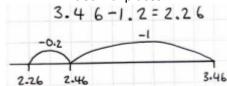
Before starting any calculation is it helpful to think about whether or not you are confident that you can do it mentally. For example, 3689 + 4998 may be done mentally, but 3689 + 4756 may require paper and pencil. Carrying out an equivalent calculation might be easier than carrying out the given calculation. For example, 3682 - 2996 is equivalent to 3686 - 3000 (constant difference).

Stage 1

Column subtraction up to 3-digits. Ensure number sentences chosen would not be more suited to a more efficient mental strategy

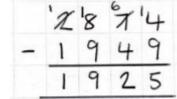


Subtracting involving numbers up to 1 and 2 decimal places.

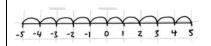


Stage 2

Column subtraction with numbers up to 4digits. Ensure number sentences chosen would not be more suited to a more efficient mental strategy



Count backwards through zero (linking with temperature).



End of year expectation

Multistep problem in context, deciding which methods to use and why.

 Town
 Pagulation

 Notified
 62,448

 certain
 49,462

 Note
 34,067

 certain
 24,478

that is the **difference** between the numbers of people living in Bedfort and in Dever?

7812,34148 -34,087 48361

Subtracting involving numbers up to 3 decimal places.

3.451-1.231= 2.22

2.451

<u> </u>		

HIAS Progression in Calculation