

Year 5 and 6 Addition Strategies

National Curriculum

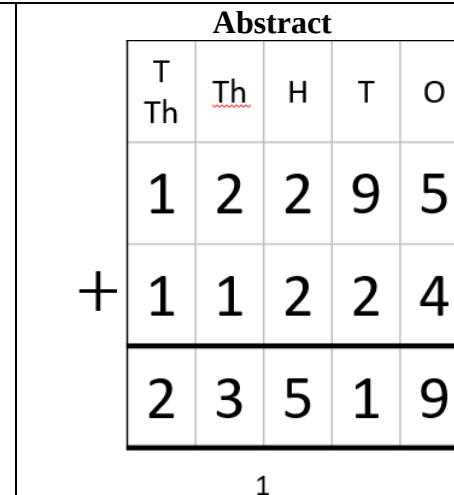
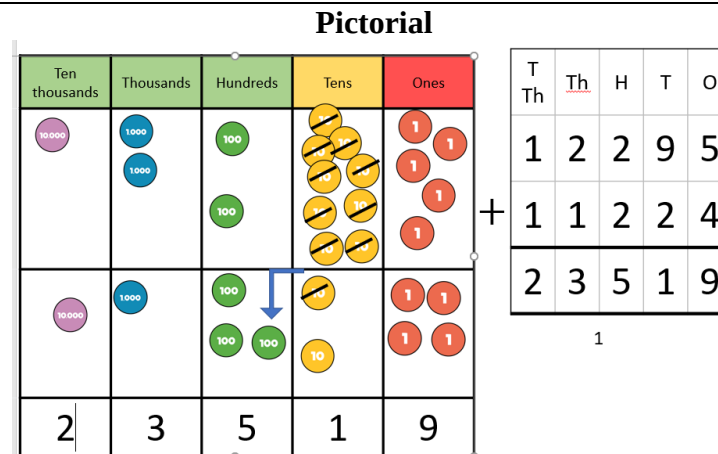
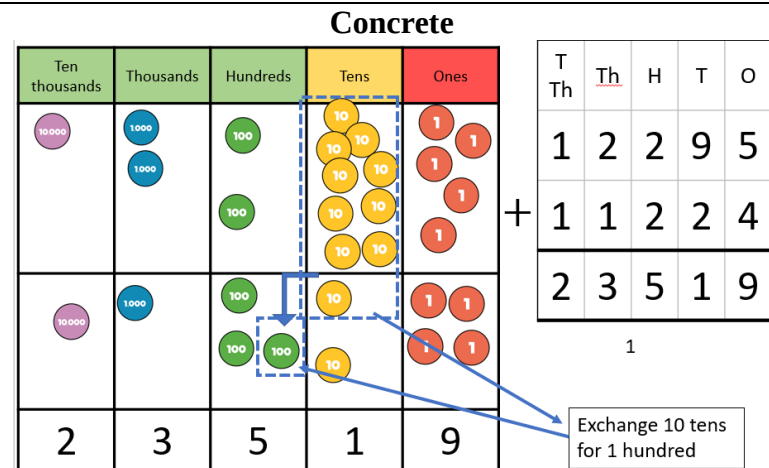
- add and subtract numbers with more than four digits, using formal written methods of columnar addition and subtraction
- estimate the answer to a calculation and use inverse operations to check answers

Children will need to know how to partition numbers with 5 or more digits and the value of each digit.

Children will need to know how to use Diennes apparatus and place value counters to add two numbers on a place value mat.

Progression in calculations:

- a. No exchanging and regrouping needed
- b. Exchanging and regrouping only needed of ones to tens
- c. Exchanging and regrouping only needed of tens to hundreds
- d. Exchanging and regrouping only needed of hundreds to thousands
- e. Exchanging and regrouping only needed of thousands to ten thousands
- f. Exchanging and regrouping only needed of ten thousands to hundred thousands
- g. Mixed exchanging in any column/more than one column



Year 5 and 6 Subtraction Strategies

National Curriculum

- add and subtract numbers with more than four digits, using formal written methods of columnar addition and subtraction
- estimate the answer to a calculation and use inverse operations to check answers

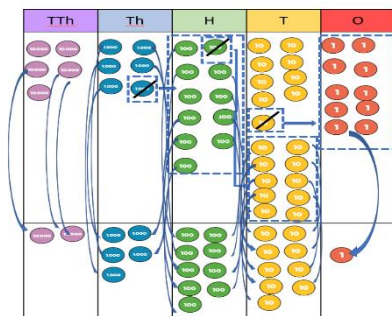
Children will need to know how to partition number with 5 or more digits and the value of each digit.

Children will need to know how to use Diennes apparatus and place value counters to subtract two numbers on a place value mat.

Progression in calculations:

- a. No exchanging and regrouping needed
- b. Exchanging and regrouping only needed of ones to tens
- c. Exchanging and regrouping only needed of tens to hundreds
- d. Exchanging and regrouping only needed of hundreds to thousands
- e. Exchanging and regrouping only needed of thousands to ten thousands
- f. Exchanging and regrouping only needed of ten thousands to hundred thousands
- g. Mixed exchanging in any column/more than one column

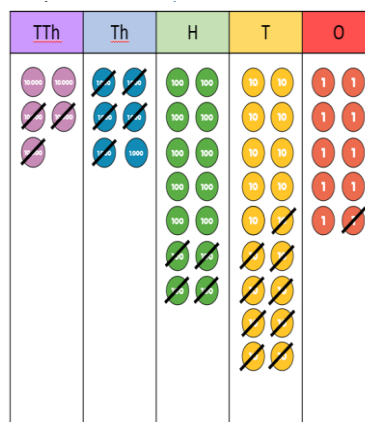
Concrete



TTh	Th	H	T	O
5	5	13	18	10
3	5	4	9	1
2	0	9	9	9

The number being subtracted from is made in the top row of the calculation mat. The number being subtracted is moved to a row underneath (the equipment is not taken off of the place value mat to enable the inverse operation to be more apparent).

Pictorial



TTh	Th	H	T	O
5	5	13	18	10
3	5	4	9	1
2	0	9	9	9

Draw the counters onto a place value grid and show what you have taken away by crossing the counters out as well as clearly showing the exchanges you make.

Abstract

TTh	Th	H	T	O
5	5	13	18	10
3	5	4	9	1
2	0	9	9	9

