

Year 4 Addition Strategies

National Curriculum

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

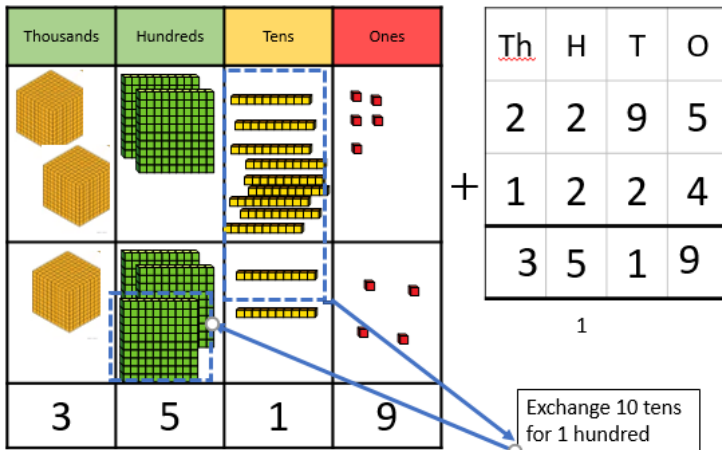
Children will need to know how to partition 4 digit numbers and the value of each digit.

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

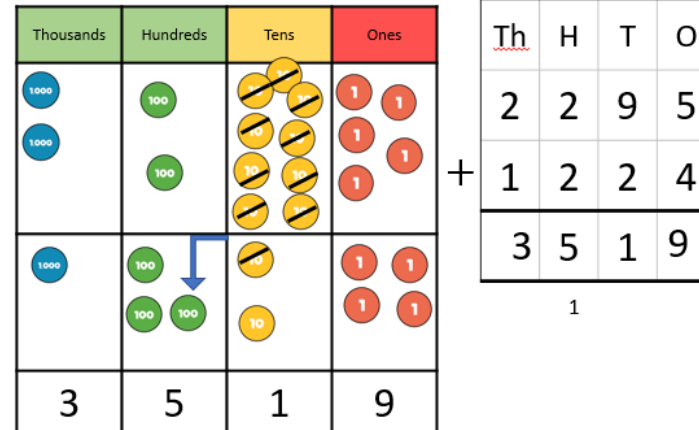
Progression in calculations:

- 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 ten thousands
- f. Mixed exchanging in any column/more than one column

Concrete



Pictorial



Draw the counters onto a place value grid and show what you have exchanged crossing the counters out as well as clearly showing the exchange you make.

Abstract



Year 4 Subtraction Strategies

National Curriculum

- 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

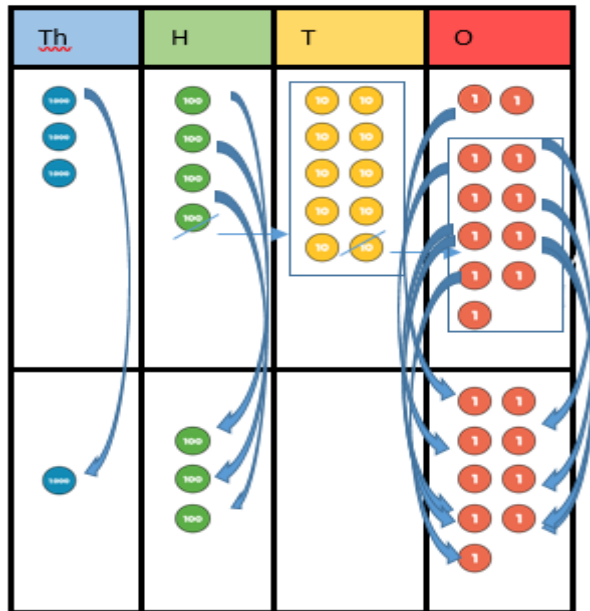
Children will need to know how to partition 4 digit numbers and the value of each digit.

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

Progression in calculations:

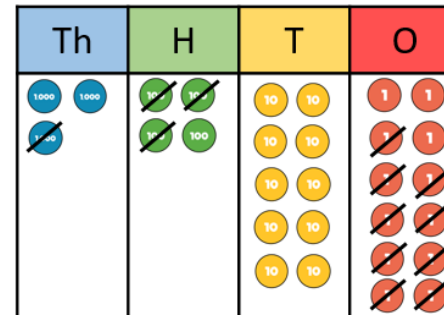
- a. No exchanging and regrouping needed
- b. Exchanging and regrouping only needed of a ten for 10 ones
- c. Exchanging and regrouping only needed of a hundred for 10 tens
- d. Exchanging and regrouping only needed of a thousand for 10 hundreds
- e. Mixed exchanging in any column/more than one column

Concrete



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



Th	H	T	O
3	1	0	2
2	0	9	3

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

Th	H	T	O
3	1	0	2
2	0	9	3

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