## Key Stage 2 - Addition

- Add several numbers of increasing complexity using columnar addition.



## National Curriculum requirements:

Add whole numbers with more than 4 digits, using the formal written method of columnar addition.

## Key Stage 2 - Subtraction

## Y6

- Continue with compact columnar subtraction, including subtraction of decimals.

- Use estimation to check answers to calculations and to determine, in the context of a problem, levels of accuracy.


## National Curriculum requirements:

Subtract numbers with more than 4 digits.

## Key Stage 2 - Multiplication

## Y6

- Recall and use multiplication tables up to $12 \times 12$ (Including multiplying by 0 and 1 ).
- Continue to practise short multiplication.
- Continue to practise long multiplication.

- Multiply decimals using the grid method and progressing on to short multiplication.
- Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.


## Video clips:

Moving from grid method to a compact method

## Reinforcing rapid times table recall

Demonstration of long multiplication

## National Curriculum requirements:

Multiply up to 4 digits by 2 digits using the formal written method of long multiplication.
Multiply numbers by $10,100,1000$ giving answers up to 3 decimal places.

## Key Stage 2 - Division

## Y6

- Consolidate short division.
- Children should be able to interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context.
$98 \div 7$ becomes

- Answer: 14
- Introduce long division.

$$
432 \div 15 \text { becomes }
$$

|  |  |  | 2 | 8 |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 5 | 4 | 3 | 2 |
|  |  | 3 | 0 | 0 |
|  |  | 1 | 3 | 2 |
|  |  | 1 | 2 | 0 |
|  |  |  | 1 | 2 |

Answer: 28 remainder 12


Answer: 86 remainder 2
$496 \div 11$ becomes

N.B: The above examples are taken from the National Curriculum for Mathematics appendix.

## National Curriculum requirements:

Divide numbers up to 4 digits by a 2 digit number using the formal written method of short division where appropriate.
Divide up to 4 digits by a 2 digits whole number using the formal written method of long division.

## Calculation: Fractions

| ADDITION AND SUBTRACTION |
| :--- |
| Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions |
| Multiply simple pairs of proper fractions, writing the answer in its simplest form <br> e.g. $1 / 4 \times 1 / 2=1 / 8$ |
| Multiply one-digit numbers with up to two decimal places by whole numbers |
| Divide proper fractions by whole numbers <br> e.g. $1 / 3 \div 2=1 / 6$ |

