

FOR PARENTS: Below is a guide to the teaching of multiplication. Most children in Year 6 are able to use short multiplication and long multiplication. We have included the teaching methods for Year 4 and 5 should you find you need to go back a step to aid understanding.

Year 4 Multiply 2 and 3-digits by a single digit, using all multiplication tables up to $12 \times 12$

Developing the grid method
Eg. $136 \times 5=680$
500


## Year 5 Multiply up to 4-digits by 1 or 2 digits.

Introducing column multiplication

| $x$ | 300 | 20 | 7 |
| :---: | :--- | :--- | :--- |
| 4 | 1200 | 80 | 28 |



Introduce long multiplication


## Year 5 Advice for staff

## Short multiplication for multiplying by a single digit

Introduce by comparing a grid method calculation to a short multiplication method to see how the steps are related, but notice how there are fewer steps involved in the column method


Pupils could be asked to work out a given calculation using the grid, and then compare it to your column method. What are the similarities and differences? Unpick the steps and show how it reduces the steps.

## Introduce long multiplication for multiplying by $\mathbf{2}$ digits

$18 \times 3$ on the first row $(8 \times 3=24$,

carrying the 2 for twenty, then
$1 \times 3$ ). $18 \times 10$ on the 2 nd row. Put
a zero in units first, then $8 x 1 \&$
1 x 1 .

The grid could be used to
introduce long multiplication, as the relationship can be seen in the answers in each row.

## Moving towards more complex numbers





