CORPUS CHRISTI CATHOLIC PRIMARY SCHOOL

Progression in written calculation strategies for multiplication

(Examples indicate end of year expectations)

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Year 1

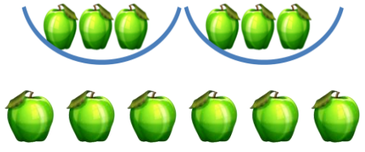
Statutory Guidance

Solve one-step problems involving multiplication by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.

Possible representations

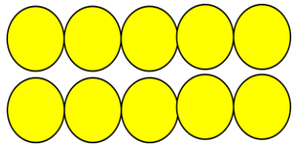
e.g. 2 x 3 =

There are two bowls with three apples in each. How many apples are there altogether?



Non- Statutory guidance

They make connections between arrays, number patterns, and counting in twos, fives and tens.



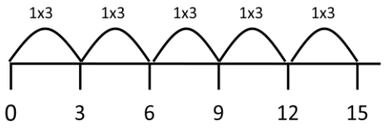
Year 2

Statutory Guidance

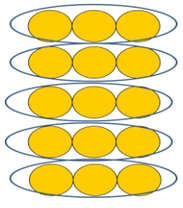
Solve problems involving multiplication using materials, arrays, repeated addition, mental methods, and multiplication facts, including problems in contexts.

Possible representations

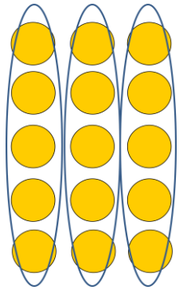
e.g. 5 x 3 =



5 x 3 =



3 x 5 =



Multiplication facts include: 2,5 and 10

Year 3

Statutory Guidance

Write and calculate mathematical statements for multiplication using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.

e.g. 34 x 8 =

x	30	4	
8	240	32	= 272

Multiplication facts include: 2,3,4,5,8 and 10

Year 4

Statutory Guidance

Multiply two-digit and three-digit numbers by a one digit number using the formal written layout.

e.g. 347 x 7 =

```
  3 4 7
x     7
-------
2 4 2 9
-------
  3 4
```

Multiplication facts up to 12 x 12

Year 5

Statutory Guidance

Multiply numbers up to 4 digits by a one – or two-digit number using the formal written method,

e.g. 2741 x 6 =

```
  2 7 4 1
x       6
---------
1 6 4 4 6
---------
  4 2
```

including long multiplication for two-digit numbers

```
    2
  2 4
x 1 6
-----
1 4 4
2 4 0
-----
3 8 4
-----
```

Year 6

Statutory Guidance

Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.

e.g. 2741 x 66 =

```
  4 2
  2 7 4 1
x     6 6
---------
1 6 4 4 6
1 6 4 4 6 0
---------
1 8 0 9 0 6
---------
  1   1
```

From Fractions section:

Multiply one-digit numbers with up to two decimal places by whole numbers

```
  2 . 4 1
x 6
-------
1 4 . 4 6
-------
  2
```