**Multiplication**

The expectation for year one and two is children will count in 2s, 5s, 10s and 3s. This will begin with grouping numbers of objects and understanding that x means groups of. Concrete objects and pictorial representations will be used.

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| **National Curriculum Expectations** | **Written method of calculation** |
| **Stage 1**  Begin to count in 2s, 5s and 10s.  Being to say what three 5s are by counting in 5s.  Double numbers to 10. | Use pictorial representations, maths resources (Numicon) and concrete objects (groups of cubes)  Touching/ pointing to objects as you count |
| **Stage 2**  Count in 2s, 5s and 10s.  Begin to count in 3s.  Begin to understand that multiplication is repeated addition and use arrays. E.g. 3 x 4 is 3 rows of 4 dots.  Being to learn the x2, x3, x5, 10 tables.  Double numbers to 20.  Being to double multiples of 5 to 100.  Begin to double 2-digit numbers less than 50 with units up to 5. | Use repeated addition:  3 x 2 = 2 + 2 + 2  5 x 2 = 2 +2+2+2+2  Organise arrays:  \*\*\*\*  \*\*\*\*  \*\*\*\* = 3 x 4 |

**Pictorial/ Concrete**

  

2 2 2 3 x 2 = 6

**Arrays**

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\*\* 3 x 2 = 6 **or** 2 + 2 + 2 = 6

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***It is important to note that although 5 x 3 = 15 and 3 x 5 = 15 are the same when discussing with the children then first number in the calculation is the number of groups. The second number being the quantity within each group. Eg. 5 x 3 is 5 groups of 3, the repeated addition would therefore be 3+3+3+3+3***