## Progression in Multiplication

| Year <br> 1 | Repeated grouping/repeated addition |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Concrete | Pictoria |  | Abstract |
|  | $\begin{aligned} & 3 \times 4 \\ & 4+4+4 \end{aligned}$ <br> There are 3 equal groups, with 4 in each group. | Children practical picture | represent the ources in a use a bar model. | $\begin{aligned} & 3 \times 4=12 \\ & 4+4+4=12 \end{aligned}$ |
| $\begin{aligned} & \text { Year } \\ & 2 \end{aligned}$ | Use arrays to illustrate commutativity |  |  |  |
|  | Concrete | Pictorial |  | Abstract |
|  | Counters and other objects can also be used. $2 \times 5=5 \times 2$ <br> 2 lots of 5 <br> 5 lots of 2 | Children to represent the arrays pictorially. |  | Children to be able to use an array to write a range of calculations. E.g.$\begin{aligned} & 10=2 \times 5 \\ & 5 \times 2=10 \\ & 2+2+2+2+2=10 \\ & 10=5+5 \end{aligned}$ |
|  |  | 00 00000 <br> 00 00000 <br> 00  <br> 00  <br> 00  |  |  |

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