<u>Ashton West End Primary Academy</u> Progression in Maths – **Multiplication**

| Year | Progression for Multiplication |
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| R | Jumping along number lines in steps of 100 square to look at patterns of multiples. Grouping –counting groups of the same size Counting in 1, 2, 5 and 10 Doubling through practical experiences Talking and using mathematical language |
| 1 | Solve practical problems involving groups of 2,5 or 10- draw pictures, groups or arrays Total groups of, repeated addition Doubling to 10 Record multiplication sentences Double to 20 Talking and using mathematical language. |
| 2 | Vocabulary of doubles, multiply, groups of, lots of etc. Repeated addition Doubling 10-20 upto 100. Counting in 2,3,5, 10. Use of arrays to solve simple problems. ◆ ◆ ◆ ◆ |
| | ♦ ♦ ♦ 4 x 2 = 8 2 x 4 = 8 Use of x and = signs to record number sentences. Show that multiplication of two numbers can be done in any order e.g. 2 x 5 = 10, 5 x 2 = 10. Begin to introduce related facts such as 4 x 5 = 20, 20 ÷ 5 = 4. |
| 3 | Recalling facts/related facts for 3,4,8 multiplication tables e.g. $3 \times 8 = 24$, $24 \div 8 = 3$. Children should use the grid method first and then if their understanding of partitioning is good, try them on the short multiplication method with two digits x one digit. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| 4 | Recall multiplication facts for multiplication tables up 12 x 12. (a) Grid method used for children who need support with partitioning. |
| | (b) Multiply two digit and three digit numbers by a one digit number using formal written layout (Most children by the end of the year) 21 342 x_7 2394 |

| 5 | Multiply numbers up to four digits by a one or two digit number using a formal written method including long multiplication for two digit numbers. 42 2741 X 6 16446 12 124 X 26 2480 744 3224 11 |
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| 6 | Multiply multi digit numbers up to four digits by two digit whole numbers using the formal written method of long multiplication. Compact method of multiplication for integers and decimals |
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