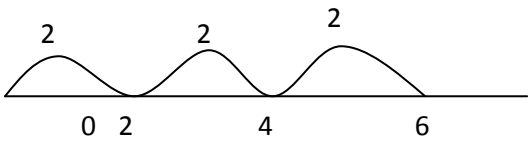
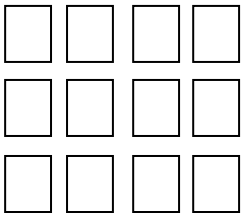
Calculation Policy – Multiplication

Year	Stage Name	Examples	Recording Method
F	Practical Examples	Doubling using the language of multiplication	
1	Pictorial Representation	How many groups of 2 are there?	Mostly pictorial representation: How many groups of two are there? Use of concrete apparatus for the children to physically count and see. Extend to written digit representation.
2	Repeated Addition (Number line)	I have 3 pairs of shoes – how many shoes do I have altogether?	
2	Decoding arrays and repeated addition (larger numbers)	Multiply 5 by 8 How many fives in 35? A baker puts 6 buns in 4 rows. How many altogether? Double 32 What is the product of 25 and 4?	Describe arrays:  4 x 3 = 12 3 x 4 = 12 Plus repeated addition (number lines)
3	Partitioning (multiplying 2 digit numbers by a 1 digit number)	Calculate 23 x 4 There are 23 ice creams in a box. How many ice creams would there be in 4 boxes?	20 x 4 = 80 3 x 4 = 12 80 + 12 = 92
3 and 4	Expanded Vertical	What is the product of 125 x 4? Calculate 4346 x 9	4346 X 9 54 360 2700 36000 39114
5 and 6	Short Multiplication	As above.	2741 × 6 becomes 2 7 4 1 × 6 1 6 4 4 6 4 2 Answer: 16 446