



# Multiplication Progression Poster

## Wellsprings School - April 2018



### Language to be used:

#### Foundation Stage

lots of, groups, part, whole, double

#### Key Stage One

times, altogether, count on, repeat, multiply, multiple, array, tables, facts, columns, rows

#### Lower Key Stage Two

multiplication, product, partition, short multiplication, inverse, factor

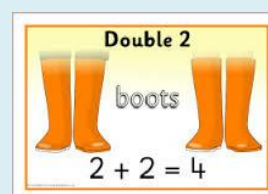
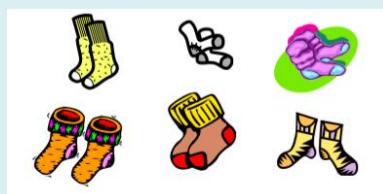
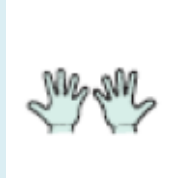
#### Upper Key Stage Two

square number, cube number, prime number, common factors, prime factors, composite numbers

### Foundation Stage

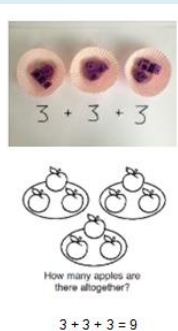
- Children will experience equal groups of objects.
- Work on practical problem solving activities involving equal sets or groups.
- Double objects and numbers.

Double 5



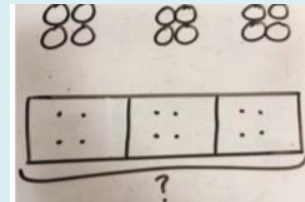
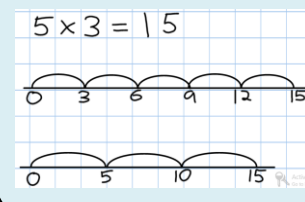
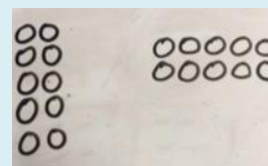
### Year One

- Count in multiples of 2, 5 and 10 from zero
- Double single-digit numbers
- Use repeated addition



### Year Two

- Counting multiples of 2, 3, 5, 10 from zero
- Repeated addition/repeated grouping
- Recall facts for 2, 5 and 10 times tables
- Represent arrays pictorially

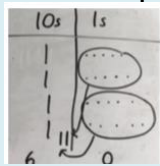


$10 = 2 \times 5$   
 $5 \times 2 = 10$   
 $2 + 2 + 2 + 2 + 2 = 10$   
 $10 = 5 + 5$

### Year Three

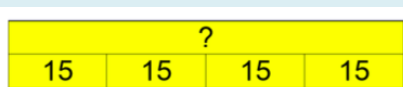
- Recall 2, 5, 10, 3, 4 and 8 times tables facts
- Multiply 2 digit by 1 digit : partitioning to multiply, using pictorial representation to support, use short multiplication

- Solve multiplication problems



$23 \times 3 =$

2	3
X	3
	9 (3x3)
+	60 (20x3)
	69

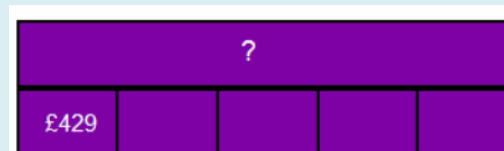


### Year Four

- Recall 12 x 12 times tables facts
- Multiply 2 digit by 1 digit and 3 digit by 1 digit, using short multiplication
- Solve multiplication problems

2	4
X	6
	24
+	120
	144

3	2	7
X		4
		28
+	1	30
	1	2
		1308



### Year Five

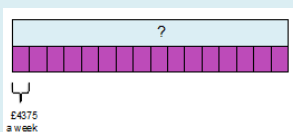
- Multiply up to 4 digit number by 1 digit or 2 digits using formal written methods, including long multiplication for 2 digit numbers
- Solve multiplication problems

	1	8
X	1	3
	5	4
+	1	80
	2	34

	1	2	3	4
X			1	6
		7	5	0
	+	1	2	3
		4	0	4
		1	9	7
			4	4

(1234 x 6)  
(1234 x 10)

	3	6	5	2
X				8
		2	9	2
	+	5	4	1
		5	4	1



### Year Six

- Multiply multi-digit numbers up to 4 digits by 2 digit number using long multiplication
- Multiply numbers with up to 2.d.p by whole numbers
- Solve multiplication problems

	3	.	1	9
X				8
				15
	+	2	5	5
		1	7	

	2	3	6	8
X			3	4
		9	4	7
	+	7	1	0
		8	0	5
			1	2

