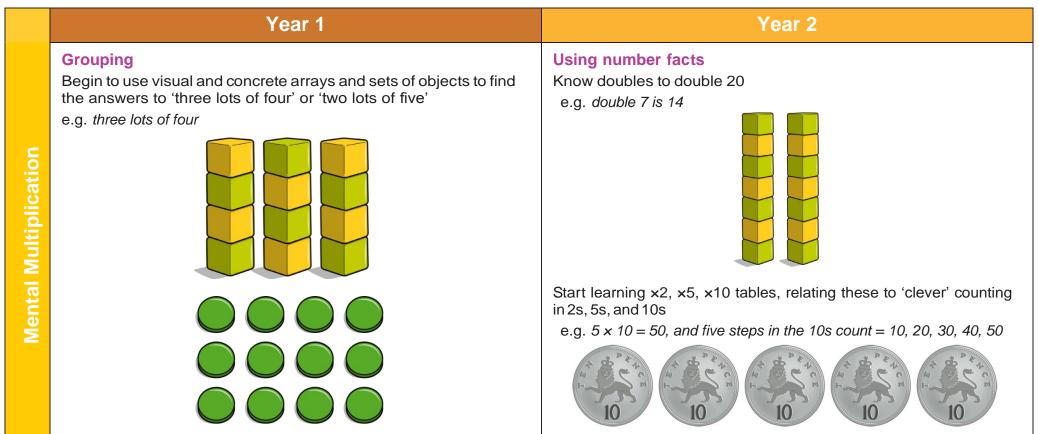
# Peppard CE Primary Calculation Policy 2017 onwards. KS1 Multiplication and Division.

(Adapted from the Abacus maths scheme).



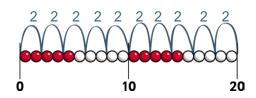
# Year 1 Year 2 **Doubling and halving Grouping** Find doubles to double 5 using fingers Use arrays to find answers to multiplication and relate to 'clever' counting e.g. double 3 e.g. 3 x 4 as three lots of four things e.g. 6 x 5 as six steps in the 5s count as well as six lots of five Mental Multiplication 5 5 5 5 5 5 20 10 30

Understand that 5 x 3 can be worked out as three 5s or five 3s



# Counting in steps ('clever' counting)

Count in 2s



Year 1

Count in 10s

1	2	3	4	5	6	7	8	q	
П	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
qı	92	93	94	95	96	97	98	qq	100

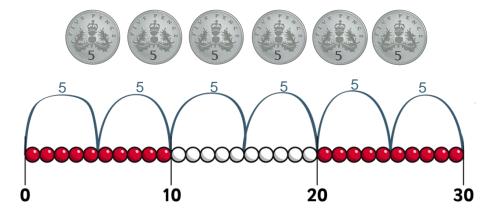
#### **Doubling and halving**

Find half of even numbers up to 12, including realising that it is hard to halve an odd number



#### Counting in steps ('clever' counting)

Count in 2s, 5s and 10s



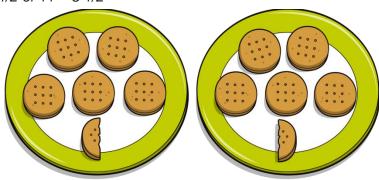
Year 2

Begin to count in 3s

## **Doubling and halving**

Find half of numbers up to 40, including realising that half of an odd number gives a remainder of 1 or an answer containing a 1/2

e.g. 1/2 of 11 = 5 1/2



Begin to know half of multiples of 10 to 100 e.g. *half of 70 is 35* 

### **Overview of Strategies and Methods – Division**

# Year 1 Year 2 **Grouping Grouping** Begin to use visual and concrete arrays and 'sets of' objects to find Relate division to multiplication by using arrays or towers of cubes the answers to questions such as 'How many towers of three can I to find answers to division make with twelve cubes?' e.g. 'How many towers of five cubes can I make from twenty cubes?' as $\times$ 5 = 20 and also as 20 ÷ 5 = **Sharing** Begin to find half of a quantity using sharing e.g. find half of 16 cubes by giving one each repeatedly to Relate division to 'clever' counting and hence to multiplication two children e.g. 'How many fives do I count to get to twenty?' Mental Division **Sharing** Begin to find half or a quarter of a quantity using sharing e.g. find a quarter of 16 cubes by sorting the cubes into four piles Find 1/4, 1/2, 3/4 of small quantities **Using number facts** Know half of even numbers to 24 Know x2, x5 and x10 division facts

Begin to know x3 division facts