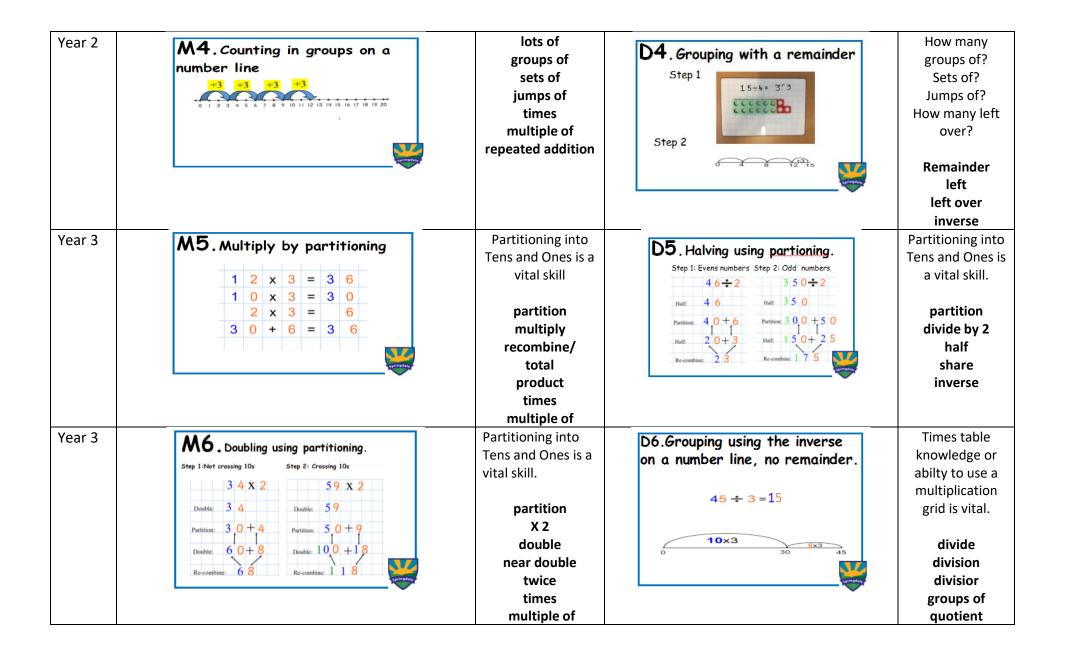
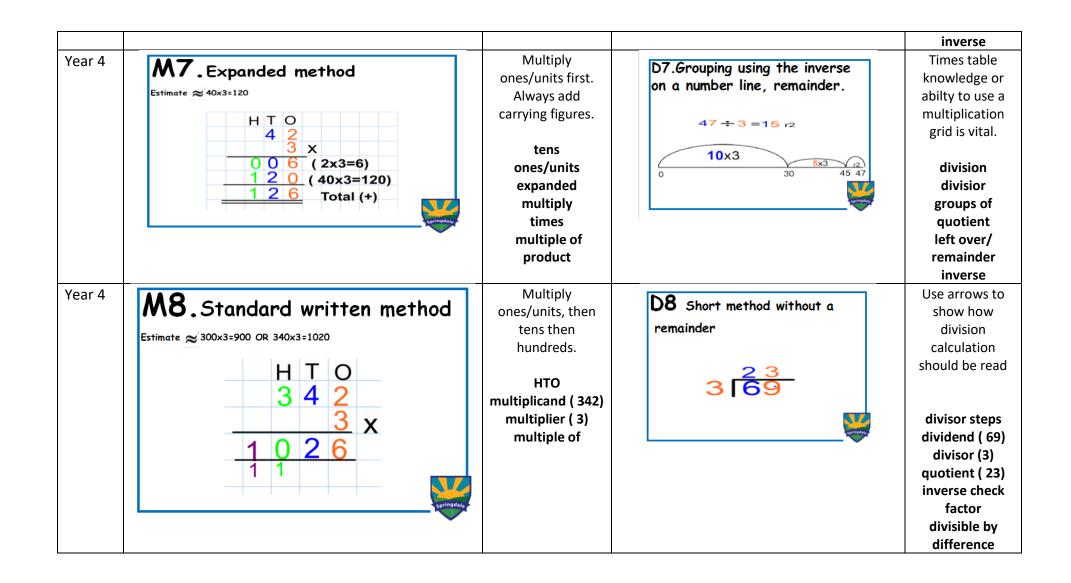
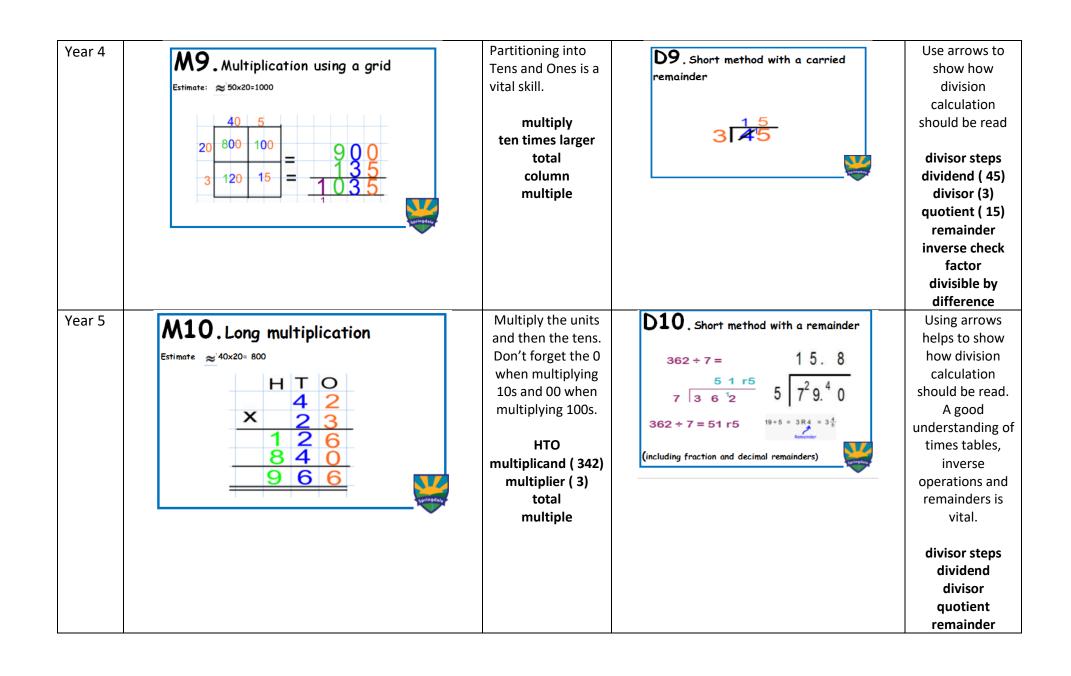


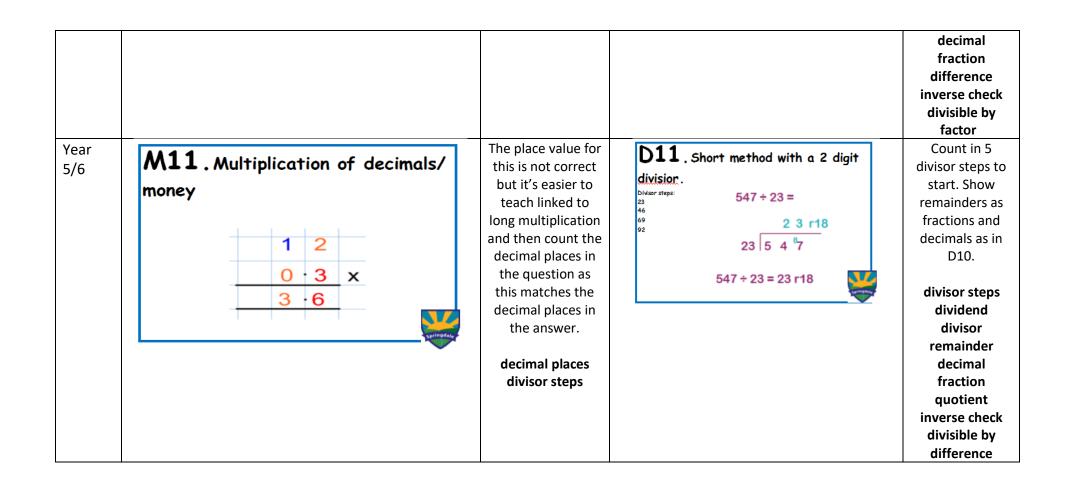
Visual Learning Steps for Written Calculations: Multiplication and Division

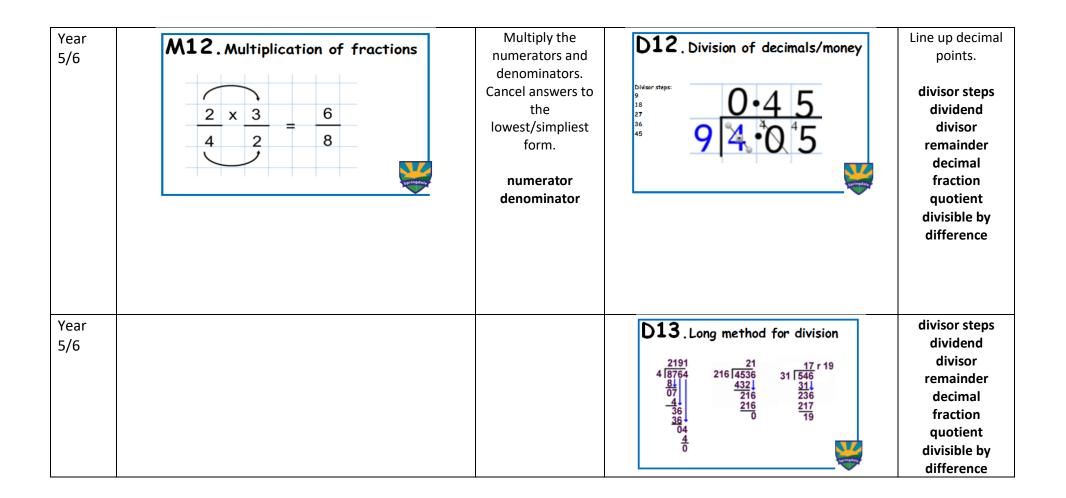
Expecte d By end of	MULTIPLICATION	Key Concepts and Vocab	DIVISION	Key Concepts and Vocab
Year 1	M1. Counting in groups with practical/concrete resources. 5 x 3 = 5 + 5 + 5 = 15	This is 5x3 i.e. 5 three times. groups of sets of multiplied by count in 2s	D1 . Sharing with practical resources	shared by groups of share
Year 1	M2. Grouping in arrays	4x3 i.e. 4 three times 3x4 i.e 3 four times arrays	D2. Grouping with practical/concrete resources.	groups of shapes of patterns of
Year 2	M3. Counting in groups on a number line using practical/concrete resources	4 lots of 3 How many 3s make 12? repeated addition	Step 2	4 lots of 3 4 groups of 3 4 sets of 3 How many times? divide jumps of











Year 5/6	D14. Division of fractions (inverse)	Swop the numerator and
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	denominator of the second fraction and then use the inverse (x) Big Bottoms
		numerator denominator inverse