



Multiplication - EYFS				
<u>Objectives</u>	Key Vocab	Example Questions		
Doubles to 10. Making equal groups.	find double make double groups of lots of	What is double 2? What do you notice? How do you know? What is double?		
Concrete Representation Songs, stories and nursery rhymes and children to physically make groups. O 1 2 3 4 5 6 7 8 9 10	Pictorial Representation Use pictures, songs and mark making to make groups.	Abstract Representation		





Multiplication KS1 (Year 1 and 2)		
<u>Objectives</u>	Key Vocab	Example Questions
Count in 2s/10s/5s. Recognise equal groups. Add equal groups. Make arrays. Make doubles. Times tables: 2x, 5x and 10x	double equal	There are ladybirds. Each ladybird has spots. There are spots in total. How many rows are there? How many columns are there?
Concrete Representation Use counters and objects to count in groups of.	Pictorial Representation Use mark making to represent arrays and number	Abstract Representation Children to write repeated additions to solve
See dealters and objects to count in groups on	lines to count in groups. Children can use number tracks to count in multiples.	calculations and use the multiplication symbol. $2+2+2=5+5+5=10+10+10=18$ $3\times 5=15$ $5\times 3=15$ $3\times 5=5\times 3$





Multiplication Lower KS2 (Year 3 + 4)			
<u>Objectives</u>	Key Vocab	Example Questions	
Multiply a 2-digit number by 1-digit number. (Y3) Times tables: 3x, 4x and 8x	place value inverse exchange	8,465 x 1 = 32 x 10 = 32 x 100 =	
Multiply a 3-digit number by 1-digit number. (Y4) Multiply by x1, x10 and x100. Times table facts to 12 x 12.	repeated addition fact pairs lots of multiples multiply	34 x 4 = 127 x 6 =	
Concrete Representation Continue using counters and place value grids to show repeated addition. Multiplication Thousands hundreds tens ones	Pictorial Representation Children to use mark making to make arrays. Bar models are used to help with repeated additions. Part whole models and place value grids can be used to partition calculations. 24 x 2 = 100 100 100 100 100 100 100 100 100 10	Abstract Representation Children to partition calculations into tens and ones. Formal method is split into tens and ones. $24 \times 2 = \frac{34}{5} \times \frac{5}{20} \times \frac{5}{5} \times \frac{150}{5} \times \frac{5}{170} \times \frac{150}{170} \times \frac{5}{170} \times \frac{170}{170}$	





Multiplication Upper KS2 (Year 5 + 6)				
<u>Objectives</u>	Key Vocab	Example Questions		
Multiply numbers up to 4-digit by a 2-digit number. Multiply by 10, 100 and 1,000. Square numbers and cube numbers. Finding multiples and factors.	repeated addition multiples factors place holder	3,427 x 24 =		
Multiply decimals by and integer. (Y6)	Pinto del Bronoccolotto	Alicher I Brown and I'm		
Concrete Representation	Pictorial Representation	Abstract Representation		
Children can use counters for repeated addition	Mark making is used for arrays. Factor flowers	The formal method for multiplication in used		
and multiplication squares to aid recall. Multiplication	always start from one when finding factor pairs. I'= x $2^{2}=1\times2$ $3^{2}=3\times3$ Factors of 20 Factors of 20 Factors of 12 $3^{1/4}$ $3^{$	with a two-step multiplication followed by an addition. $ \frac{32}{\frac{x + 3}{96}} = \frac{1207}{\frac{32}{12}} $ $ \frac{320}{416} = \frac{32}{12} = \frac{36}{12} = \frac{36}{1$		