Maths - Year 3

Calculating 15: Exploring ratio and scaling problems and introducing the short written method for multiplying and dividing

	Key Vocabulary	Mathematical Skills
Partitioning	Splitting a number in different ways e.g. 27 = 2 tens and 7 ones.	 Explain that multiplying a number by 2 is the same as doubling it, and it will make it twice as big. Use the language 'multiplied by' when describing by how much they are enlarging a model. Read multiplication sentences e.g. 5 x 3 = 15 Make up 'multiplied by' stories and illustrate these. Explain that dividing a number by 2 will result in making it half the size. Explain that multiplying by 0 will always result in 0 and that multiplying by 1 will leave it unchanged. Generalize about multiplying and dividing by 10. Explain the short methods of multiplying and dividing.
Scaling up	The amount by which something is in- creased.	
Shared by	Sharing/dividing an amount into equal parts.	
Short method of multiplying/ dividing	Written method for multiplying/dividing in which numbers are written in columns according to their value.	
Carry/ redistribute	Transferring a digit from one place value column to another.	
 Explore 'How many times taller?' and 'How many times smaller?' Explore the language of 'multiplied by' using apparatus, e.g. multiplied by 2. Explore how many times longer to support understanding of multiplication. 		
- Understandir	ng multiplying and dividing by 10 using a	oparatus and place value grids.
Tens	3 X IU = 3U	$3U \div 1U = 3$



