Year 3 Multiplication and Division Learning Journey

Ready to Progress
Non-statutory guidance for key skills and knowledge needed
Resources, ideas and assessment questions available in the Maths Guidance NCETM

Year 2 Prior Learning	Year 3	NCETM
Recognize repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables	Apply known multiplication and division facts to solve contextual problems with different structures, including quotative and partitive division.	
Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	
✓ Recognise odd and even numbers in the times tables	✓ Recall and use the multiplication and division facts for 3 times tables	
✓ Recall and use the multiplication and division facts for 2 times tables	✓ Recall and use the multiplication and division facts for 4 times tables	
✓ Recall and use the multiplication and division facts for 5 times tables	✓ Recall and use the multiplication and division facts for 8 times tables	
✓ Recall and use the multiplication and division facts for 10 times tables		
Calculate mathematical statements for multiplication within the multiplication tables and write them using the multiplication (X) and equals (=) signs	Write and calculate mathematical statements for multiplication using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	
	✓ Interpret arrays as multiplication sentences	
	✓ Understand the commutative nature of multiplication?	
	✓ Draw arrays to represent multiplication sentences	
	✓ Understand the distributive law applied to a multiplication of a two-digit number by a one-digit number	
	✓ Multiply 2dx1d using expanded method	
	✓ Multiply 2dx1d using the formal written method	
	✓ Identify the correct operation(s) required in order to solve a problem and create mathematical statements	

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Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotative division).		
Calculate mathematical statements for division within the multiplication tables and write them using the division (÷) and equals (=) signs	Write and calculate mathematical statements for division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	
	✓ Explain division as the inverse of multiplication using concrete apparatus	
	✓ Solve division using multiples of the divisor	
	✓ Solve division problems using the formal method	
	✓ Families of 4 (embedded through starters and reviewed in detail on completion of Multiplication and division units)	

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