

	MULTIPLICATION & DIVISION FACTS							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
count in multiples of twos, fives and tens (copied from Number and Place Value)	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward (copied from Number and Place Value) recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even	count from 0 in multiples of 4, 8, 50 and 100 (copied from Number and Place Value) recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	count in multiples of 6, 7, 9, 25 and 1000 (copied from Number and Place Value) recall multiplication and division facts for multiplication tables up to 12 × 12	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 (copied from Number and Place Value)				
	numbers							
		MENTAL CALCU	LATION					
		write and calculate mathematical statements for multiplication and 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 (appears also in Written Methods)	use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers	multiply and divide numbers mentally drawing upon known facts	perform mental calculations, including with mixed operations and large numbers			
	show that multiplication of two numbers can be done in any order (commutative) and division of one number by		recognise and use factor pairs and commutativity in mental calculations (appears also in	multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. ³ / ₈)			



	another cannot	Properties of Numbers)			(copied from Fractions)			
WRITTEN CALCULATION								
Year 1	Year 2	Year 3		Year 4		Year 5		Year 6
	calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs	write and calculate mathematical statements for multiplication and 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 (appears also in Mental Methods)	and t numt digit i	ply two-digit hree-digit pers by a one- number using al written layout	to 4 d two-c using meth long r	ply numbers up ligits by a one- or digit number a formal written od, including multiplication for digit numbers	digits by using the	multi-digit numbers up to 4 a two-digit whole number e formal written method of ltiplication
					4 digi numb forma meth divisio rema	e numbers up to ts by a one-digit per using the al written od of short on and interpret inders opriately for the ext	two-digi formal v division context digits by using the long divi remaind	umbers up to 4-digits by a t whole number using the vritten method of short where appropriate for the divide numbers up to 4 r a two-digit whole number e formal written method of ision, and interpret lers as whole number lers, fractions, or by



-						context use writter where the	, as appropriate for the n division methods in cases answer has up to two decimal pied from Fractions (including
	Year 1	Year 2	NUMBERS: MULTIPLES, FAC Year 3	Year 4	Year 5		Year 6
				recognise and use factor pairs and commutativity in mental calculations (repeated)	r identify multiples a	finding mon nbers. ne ictors on- a is	identify common factors, common multiples and prime numbers use common factors to simplify fractions; use common multiples to express fractions in the same denomination (copied from Fractions)
					recognise and use numbers and cube numbers, and the notation for square and cubed (³)	2	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm ³) and cubic metres (m ³), and extending

The Tithe Farm Way:



Resilient pupils who have a life-long love of learning and are ready, respectful and safe in their choices.

		to other units such as mm^3 and km^3
		(copied from Measures)



	ORDER OF OPERATIONS							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
					use their knowledge of the order of operations to carry out calculations involving the four operations			
	IN	VERSE OPERATIONS, ESTIMA	TING AND CHECKING ANSW	ERS				
		estimate the answer to a calculation and use inverse operations to check answers (copied from Addition and Subtraction)	estimate and use inverse operations to check answers to a calculation (copied from Addition and Subtraction)		use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy			



PROBLEM SOLVING							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects	solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	solve problems involving addition, subtraction, multiplication and division		
				solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	solve problems involving similar shapes where the scale factor is known or can be found (copied from Ratio and Proportion)		