

## FOUR OPERATIONS YEAR 6

Strand	What do I already know?	What am I going to be learning?	What next?
Mental Calculation	Number bonds to 100 - Y1/2	perform mental calculations, including with mixed operations and	ilexti
+ and -	+ and – numbers to 20 – Y1	large numbers	
	+ and – two 2-digit numbers – Y2		
	Order doesn't matter (commutative) in addition, but it does in subtraction – Y2	use my knowledge of the order of operations to carry out	
	Y3 - add and subtract numbers mentally, including: a three-digit number and	calculations involving the four operations	
	ones; a three-digit number and tens; a three-digit number and hundreds		
	Add and subtract numbers mentally with increasingly large numbers – Y5		
Mental Calculation	All times tables to 12x by end of Y4	perform mental calculations, including with mixed operations and	
X and ÷	Multiply 1-digit numbers by 2-digit numbers – Y3	large numbers	
	Apply place value to x and ÷ - Y4		
	x U and 1; ÷ 1, x three numbers together – Y4		
written calculation x	Use $x \div and = \ln y^2$	Nultiply multi-digit numbers up to 4 digits by a two-digit whole	
ano -	Ose times tables to write mathematical statements – 13 Multiply 2, and 2 digit numbers by 1 digit numbers using formal mothed – V4	Divide numbers up to 4 digits by a two digit whole number using the	
	Multiply 2- and 5-digit numbers by 1-digit numbers using formal method – Y5	formal written method of long division, and interpret remainders as	
	Divide up to A-digit numbers by 1-digit numbers using short division (with	whole number remainders fractions or by rounding	
	remainders) – V5	whole number remainders, mactions, or by rounding.	~
Properties of	Recognise and use factor pairs – Y4	Identify common factors, common multiples and prime numbers	53
numbers x and ÷	Multiples and factors – Y5	·····	≤
	Primes and composites – Y5		ths
	Squares and cubes – Y5		
Order of operations		BIDMAS – apply to calculations using four operations	
Inverse operations,	Use inverse of + or – to check missing number calculations – Y2	use estimation to check answers to calculations and determine, in	
estimating and	estimate the answer to a calculation and use inverse operations to check	the context of a problem, levels of accuracy.	
checking – all four	answers – Y3		
operations	estimate and use inverse operations to check answers to a calculation – Y4		
	use rounding to check answers to calculations and determine, in the context of a		
	problem, levels of accuracy – Y5		
Problem solving	Solve 1-step problems, using pictures or objects to help – Y1	Solve problems involving addition, subtraction, multiplication and	
	Solve problems using objects or pictures, including quantities and measures – Y2	division	
	solve problems, including missing number problems, using number facts, place		
	value, and more complex addition and subtraction – Y3		
	solve addition and subtraction two-step problems in contexts, deciding which		
	operations and methods to use and why – Y4		
	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and $why = V_{2}^{2}$		
Vocabulary	Ones tens hundreds thousands add sum total subtract difference inverse on	l eration estimate commutative round estimate level of accuracy PIDI	MAS
v ocabulal y	long / short division long multiplication remainder factors multiples prime composite common square cube integer product quotient divisor dividend		
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