Progression in Addition and Subtraction

NUMBER BONDS								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
represent and use number bonds and related subtraction	recall and use addition and subtraction facts to 20			count				
facts within 20	fluently, and derive and use							
Jucis William 20	related facts up to 100							
MENTAL CALCULATION								
add and subtract one-digit and	add and subtract numbers	add and subtract numbers	ECOLATION	add and subtract numbers	perform mental calculations,			
two-digit numbers to 20,	using concrete objects,	mentally, including:		mentally with increasingly large	including with mixed operations			
including zero	pictorial representations, and	* a three-digit number and		numbers	and large numbers			
	mentally, including:	ones			and iai go namboi o			
	* a two-digit number and ones	* a three-digit number and						
	* a two-digit number and tens	tens						
	* two two-digit numbers	* a three-digit number and						
	* adding three one-digit	hundreds						
	numbers							
read, write and interpret	show that addition of two				use their knowledge of the			
mathematical statements	numbers can be done in any				order of operations to carry			
involving addition (+),	order (commutative) and				out calculations involving the			
subtraction (-) and equals (=)	subtraction of one number				four operations			
signs	from another cannot							
	WRITTEN METHODS							
read, write and interpret		add and subtract numbers with	add and subtract numbers with	add and subtract whole				
mathematical statements		up to three digits, using formal	up to 4 digits using the formal	numbers with more than 4				
involving addition (+),		written methods of columnar	written methods of columnar	digits, including using formal				
subtraction (-) and equals (=)		addition and subtraction	addition and subtraction where	written methods (columnar				
signs		ENVENCE ORDATIONS SCITMA	appropriate	addition and subtraction)				
INVERSE OPERATIONS, ESTIMATING AND CHECKING ANSWERS recognise and use the inverse estimate the answer to a estimate and use inverse use rounding to check answers use estimation to check								
	relationship between addition	calculation and use inverse	operations to check answers to	to calculations and determine.	answers to calculations and			
	and subtraction and use this to	operations to check answers	a calculation	in the context of a problem,	determine, in the context of a			
	check calculations and solve	operations to check answers	a carculation	levels of accuracy	problem, levels of accuracy.			
	missing number problems.			levels of accuracy	problem, reversion accuracy.			
PROBLEM SOLVING								
solve one-step problems that	solve problems with addition	solve problems, including	solve addition and subtraction	solve addition and subtraction	solve addition and subtraction			
involve addition and	and subtraction:	missing number problems, using	two-step problems in contexts,	multi-step problems in	multi-step problems in			
subtraction, using concrete	* using concrete objects and	number facts, place value, and	deciding which operations and	contexts, deciding which	contexts, deciding which			
objects and pictorial	pictorial representations,	more complex addition and	methods to use and why	operations and methods to use	operations and methods to use			
representations, and missing	including those involving	subtraction		and why	and why			
number problems such as	numbers, quantities and				Solve problems involving			
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	* applying their increasing				multiplication and division			
	knowledge of mental and							
	written methods							