

Year 3			
Number – additic	on and subtraction	Number – multiplication and division	
solve problems, including missing number problems, using number facts, place value, and more complex addition	solve problems, including missing number problems, using number facts, place value, and more complex subtraction	solve problems, including missing number problems, involving multiplication, including positive integer scaling problems and correspondence problems in which n objects are connected to m	solve problems, including missing number problems, involving division, including positive integer scaling problems and correspondence problems in which n objects are connected to m
$\begin{array}{llllllllllllllllllllllllllllllllllll$	$\begin{array}{llllllllllllllllllllllllllllllllllll$	objects solve simple problems in contexts, deciding which of the four operations to use and why Missing numbers placed in all possible places.	objects solve simple problems in contexts, deciding which of the four operations to use and why Missing numbers placed in all possible places.
Use all the models and images mentioned above. Discuss which is most effective and why.	Use all the models and images mentioned above. Discuss which is most effective and why.	$7 \times 2 = 2 \times 7$ $7 \times = 14 $	$ \begin{array}{rcl} 6 \div 2 &=& = 6 \div 2 \\ 6 \div &= 3 & 3 = 6 \div \\ \div &2 = 3 & 3 = & \div 2 \\ \div &\nabla &= 3 & 3 = & \div \nabla \end{array} $
Singapore Bar Method	Singapore Bar Method	Extend to $2 \times 6 = 3 \times$ and using three numbers $10 \times x = 60$ $12 = 2 \times x 2$	Extend to $12 \div 6 = 8 \div$ and using three numbers $10 \div 5 \div = 1$ $3 = 12 \div \div 2$
part part	whole - part = part	Use all the models and images mentioned above. Discuss which is most effective and why. Singapore Bar Method	Use all the models and images mentioned above. Discuss which is most effective and why. Singapore Bar Method
larger quantity smaller quantity	larger quantity smaller quantity	whole one part x number of parts = whole	whole whole + number of parts = one part whole + one part = number of parts
difference smaller quantity + difference = larger quantity	difference larger quantity - smaller quantity = difference	larger quantity smaller quantity x multiples = larger quantity	larger quantity + smaller quantity = multiple
		smaller quantity	larger quantity ÷ multiples = larger quantity smaller quantity
estimate the answer to a calculation and use inverse operations to check answers Estimate answers before solving any calculation. Once inverse operation has been learnt use as a method for checking.	estimate the answer to a calculation and use inverse operations to check answers Estimate answers before solving any calculation. Once inverse operation has been learnt use as a method for checking.	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	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
	and the second s	See models and images above.	See models and images above.
use a variety of language to describe addition	use a variety of language to describe subtraction	use a variety of language to describe multiplication	use a variety of language to describe division
*, add, addition, more, plus, make, sum, total, altogether, score, double, near double, one more, two more ten more one hundred more, how many more to make? how many more is than? how much more is?	- subtract, subtraction, take (away), minus, leave, how many are left/left over? one less, two less ten less one hundred less, how many fewer is than? how much less is? difference between, half, halve	count, count (up) to, count on (from, to), count back (from, to), count in ones, wos, threes, fours, fives count in tens, hundreds, lots of, groups of, D, times, multiply, multiplication, multiplied by, multiple of, product, once, twice, three times ten times as (big, long, wide and so on), repeated addition, array,	Array, row, column, halve, share, share equally, one each, two each, three each. group in pairs, threes tens, equal groups of, ÷, divide, division, divided by, divided into, left, left over, remainder
= equals, sign, is the same as	= equals, sign, is the same as	row, column	= equals, sign, is the same as
tens boundary, hundreds boundary		= equals, sign, is the same as	