

Captain Webb Primary School medium term plan

Year 6

Autumn	Strand	Number of weeks	Ready to Progress (Based on National Curriculum objectives)	Key areas of knowledge (small steps in learning)	Resources and methods (Calculation policy)
	Number: Place Value	2	Knows how to round any whole number to a required degree of accuracy. Knows how to read, write, order and compare numbers up to 10 000000 and determine the value of each digit Knows the place value of each digit to 10 000 000 Knows the value of each digit to three decimal places.	I know how to read and write numbers up to 10 million, determining the value of each digit I know how to compare and order numbers up to 10 million I know how to round numbers to a degree of accuracy I know how to count and use negative numbers in context, and calculate intervals across zero	Conceptual development 467 400 60 7 400+60+7=457
	Addition & Subtraction	2	 Knows efficient mental methods applying knowledge of properties of number Knows the compact algorithms for addition and subtraction Knows how to use mental calculations with increasingly large numbers and more complex calculations 	 I know the formal method of addition I know the formal method of subtraction I know how to use mental strategies to help me with addition and subtraction calculations I know how to solve addition and subtraction multi-step problems in context 	Disciplinary knowledge must haves (Critical arithmetic): Number bonds to 10 and 20 and rules of inverse 6 5 4 4 2

Multiplication & Division 2	 Knows efficient mental methods applying knowledge of properties of number Knows the long algorithms for long multiplication and division Knows the efficient written algorithms for long/short multiplication and long/short division Knows the rules of BIDMAS Knows the compact algorithms for all four operations Knows how to use mental calculations with increasingly large numbers and more complex calculations 	 I know what a common factor is I know what a common multiple is I know what a prime and composite number is I know what square and cubed numbers are I know the formal method of multiplication I know how to interpret remainders in context (as whole numbers, fractions, or by rounding) I know how to multiply one-digit numbers with up to two decimal places by whole numbers I know how to solve multistep problems with all 4 operations I know how to use mental strategies to help me with
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Geometry- Position and direction	 Knows how to describe positions on the 4 quadrant grid. Knows how to draw and translate simple shapes on the co-ordinate plane and reflect in the axes. 	 I know how to read coordinates in all 4 quadrants I know that a shape does not change when it is translated I know that shapes can be reflected in the x and y axis I know how to predict missing co-ordinates using the properties of shapes 	Locate and write the following coordinates: A = B
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Problem solving and Reasoning

Autumn	Strand	Number	Ready to Progress	Key areas of knowledge	Resources and methods
1		of	(Based on National Curriculum objectives)	(small steps in learning)	
		lessons			
	Finding all possibilities	3	 I know how to identify are the starting and stopping points. I know when some solutions are repeated and when it affects the outcome. I know when the criteria restrict the number of possibilities. 	•	



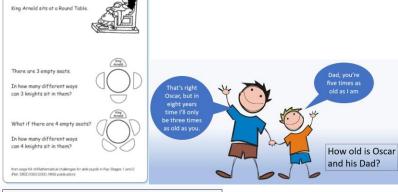
a and b are whole numbers.

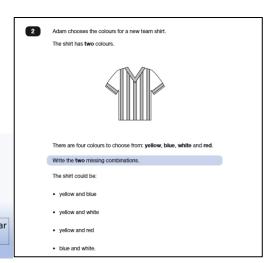
a is a one digit number.

b is a two digit number.

Find four different possibilities for a and b.

a	b





It is less than 50.
It is a 2-digit number.
3 is a factor of this number.
The sum of its digits is one third of the number.
What is Jake's number?

King Arnold