



Mundy Church of England Junior School

Medium Term Plan 2021-22

MATHS

Year 5&6

AUTUMN Term 1 & 2

Week	STRAND	Main Focus	Weekly Summary – Main Activities / Outcomes		Planning Reference
			YEAR 5	YEAR 6	
1.	Place Value	Place value Focus on establishing a robust understanding of place value / and decimals.	• Read, write, compare and order 5-6-digit numbers, understanding the place value • use < and > signs • round numbers to the nearest 10, 100 and 1000 • work systematically to spot patterns	• Number facts • read and write 6-digit numbers and know what each digit represents • Compare 6-digit numbers • place whole and decimal numbers on a number line • round whole numbers to the nearest, 10, 100, 1000 • round decimals to nearest tenth and whole number • read, write and compare 1-, 2- and 3-place decimal numbers	Abacus-Y5 A-W1&9 Abacus-Y6 A-W1
2.	Addition and Subtraction	Addition and subtraction Focus on the development of addition and subtraction calculation strategies.	Study strategies for solving mental and written additions or subtractions: • add and subtract multiples of 10, 100 and 1000 to and from 5-digit numbers	• Use mental addition strategies to solve additions including decimal numbers • use column addition to add 5-digit numbers • choose an appropriate method	Abacus-Y5 A-W1&2



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			• add and subtract 2, 3 and 4-digit numbers mentally • use written addition to add two 4-digit numbers • solve word problems	• to solve decimal addition. • use column addition to add decimal numbers and amounts of money • solve problems involving number up to 3 decimal places	Abacus-Y6 A-W2
3.	Addition and Subtraction	Subtraction Focus on using formal written subtraction and counting up as appropriate, including when finding change.	• Solve subtraction using a written method for 3-digit – 3-digit numbers and for 4-digit numbers • solve subtraction using a written method for 4-digit – 3-digit numbers • use counting up (Frog) as a strategy to perform mental subtraction find change from a multiple of ten pounds using counting up	• Mental subtraction • column subtraction • counting up to subtract • solve subtractions of amounts of money and word problems • use mathematical reasoning to investigate.	Abacus-Y5 A-W5
					Abacus-Y6 A-W5
4.	Multiplication and Division	Multiplication and division Focus on multiplication and division strategies / mental strategies and written methods in multiplying. Rehearse long and short multiplication.	• Recognise which numbers are divisible by 2, 3, 4, 5, 6, 9 and 25 • identify multiples • find all factors of a given	• Multiply and divide by 10, 100 and 1000 • use mental multiplication strategies to multiply by numbers such as 4, 8, 5, 25, 19, 29 and 99	Abacus-Y5 A-W3&6



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			number and recording results systematically • identify square and prime numbers • multiply and divide by 4 by doubling or halving twice	• revise using short multiplication to multiply 4-digit numbers by 1-digit numbers and use this to multiply amounts of money • solve word problems involving multiplication including two-step problems and finding change • use long multiplication to multiply 3-digit and 4-digit numbers by teens numbers.	Abacus-Y6 A-W1&6
5.	Multiplication and Division	Multiplication and division Focus on exploring a range of calculation strategies to multiply and/or divide with increasingly large numbers, including the formal written layout.	• Use mental strategies to multiply & divide multiples of 10 and 100 • use a written method to multiply 3-digit and 4-digit numbers by 1-digit numbers and estimate answers • divide 3-digit numbers by 1-digit numbers using a written method and express remainders as a fraction • solve division word problems	• Use mental strategies to divide by 2, 4, 8, 5, 20 and 25 • use short division to divide 3- and 4-digit numbers by 1-digit numbers • including those which leave a remainder - express a remainder as a fraction, simplifying where possible • introduce long division	Abacus-Y5 A-W7
					Abacus-Y6 A-W9



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6.	Measure	Time Focus on converting and calculating time intervals.	Assess children's current understanding of time - revise converting 12-hour clock times to 24-hour clock times - find a time a given number of minutes or hours and minutes later - calculate time intervals using 24-hour clock format	- Revise reading the 24-hour clock - convert 12-hour times to 24-hour - find time intervals using the 24-hour clock - read and write Roman numerals	Abacus-Y5 A-W4
					Abacus-Y6 A-W4&7
7.	Measure	Length Focus on measuring lengths in cm and mm including perimeters and area / measurement and conversion of metric and imperial units.	- Measure lengths in mm and convert to cm - find perimeters in cm and convert cm to m - calculate perimeter and area of rectilinear and non-rectilinear shapes.	Convert between: - mm & cm / cm & m / m & km - grams and kilograms - millilitres and litres - miles and kilometres - calculate the perimeter, area and volume of shapes - understand that shapes can have the same perimeters but different areas and vice versa - calculate the area of a triangle using the formula $A = 1/2 b \times h$ - find the area of parallelograms	Abacus-Y5 A-W4
					Abacus-Y6 A-W4&W8



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8.	Fractions (including Decimals) NPV Number and place value	Decimals Focus on ordering, comparing and rounding decimals. Look at multiply, divide, add and subtracting decimal numbers using place value / multiply and divide using place value.	- Understand place value in decimal numbers - place decimals up to two places on a line - round decimals up to two places to the nearest whole number - compare and order numbers with up to two decimal places - multiply and divide numbers with up to two decimal places by 10 and 100 (place value) - add and subtract 0.1 and 0.01 (place value)	- Read, write and compare 3-place decimal numbers and multiply and divide by 10, 100 and 1000 - round them to nearest tenth and whole number and place on a number line - add and subtract decimal numbers - convert decimals (up to 3 places) to fractions and vice-versa	Abacus-Y5 A-W3&9
					Abacus-Y6 A-W1,2&5
9.	Fractions (including Decimals)	Fractions Focus on ordering and comparing fractions and on equivalence in relation to proper fractions and decimals / add and subtract fractions, including improper fractions and mixed numbers, multiplying fractions.	- Compare and place fractions on a line - find equivalent fractions - reduce fractions to their simplest form - know and recognise equivalent fractions and decimals to half, tenths, and fifths	- Understand fractions are parts of numbers and use the terms fraction, denominator and numerator correctly - Compare fractions with unlike, but related, denominators (equivalent fractions) - understand that a fraction where the numerator is greater	Abacus-Y5 A-W9



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				than the denominator is called an improper fraction and can be converted to a mixed number • add and subtract fractions with the same denominator, writing the answer as a mixed number • add and subtract unit fractions with different denominators, including mixed numbers • Find non-unit fractions of amounts • Multiply fractions less than 1 by whole numbers, converting improper fractions to whole numbers	Abacus-Y6 A-W7,10 &11
10.	Geometry	Shape (recap learning) Properties of 2D & 3D shapes.	• Properties of 2-D shapes • properties 3-D shapes • identifying 3-D shapes from 2-D • classify & identify different triangles • classify & identify different quadrilaterals and other geometric shapes according to their properties • classify & identify the different types of angles • work out the angles in different triangles		BUILD ON previous knowledge



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11.	Geometry	Angles Focus on the concept of angles as degrees of 'turn', and on comparison, identification and measurement of angles.	• Recognise, use terms and classify angles as obtuse, acute and reflex • recognise that angles on a line total 180° and angles round a point total 360° • use a protractor to measure and draw angles in degrees • identify and name parts of a circle including diameter, radius and circumference • draw circles to a given radius using a pair of compasses • relate angles to turns, and recognise that a 360° angle is a complete turn • use angle facts to solve problems related to turn		Abacus-Y5 A-W8 BUILD ON previous knowledge
12. Y5	Measure	Time Focus on developing time knowledge.	Practise & build on learning from week 6		BUILD ON previous knowledge
12. Y6	Algebra	Algebra Focus on developing the use of trial and improvement methods, knowledge of the order of operations including brackets, and the manipulation of sentences containing unknowns.	• Express missing number problems algebraically and find pairs of numbers that satisfy equations involving two unknowns • find missing lengths and angles; understand how brackets can be used in calculation problems • use knowledge of the order of operations to carry out calculations involving the four operations • solve addition and subtraction multi-step problems using knowledge of the order of operations.		Abacus-Y6 A-W3



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+ ASSESSMENT WEEK										
+ Revision week		Topic choice specific to class needs.								
Key Questions:	Who can find a way to...?	What made you decide to do it that way?	Can you show me...?	How did you find that out?	What patterns do you notice?	What do you think?	Is there another way this could be done?	Is that right?	How do you know...?	