Manor Church of England Infant School Medium Term Planning: **Maths (Year 2)**
Term: Spring

Week	Domain	Mental / Oral Objectives	Y2 Objectives	Key Vocabulary	Resources
Autumn 1					
1	Number and place value 3d shape	Counting in and back in 1s, 2s, 5s and 10s	• Count in 2's, 5's and 10's from any number forwards and backwards • Recognise the place value of each digit in a two-digit number (tens, ones) • Use place value and number facts to solve problems. • Identify, represent and estimate numbers using different representations, including the number line. • Compare and order numbers from 0 up to 100, use <, > and = signs • Read and write numbers to at least 100 in numerals and words. • Identify and describe the properties 2-d shape, including the number of sides and symmetry in a vertical line. • Identify 2-d shapes on the surface of 3-d shapes e.g. the circle on a cylinder • Identify and describe the properties 3-d shape, including the number of edges, vertices and faces.	Tens, ones, number names	Numicon, Dienes shapes

2	Addition 3d shape		• Solve problems using addition and subtraction • Add and subtract to 50 and beyond using a number line, concrete objects, pictorial representations, including those involving numbers and measures. • Applying their knowledge of mental and written methods. • Recall and use addition facts to 20. • Add a two—digit number and ones. • Add a two digit number and tens. • Adding three one-digit numbers. • Show that addition of two numbers can be done in any order and subtraction of one number from another cannot. • Identify and describe the properties 2-d shape, including the number of sides and symmetry in a vertical line. • Identify 2-d shapes on the surface of 3-d shapes e.g. the circle on a cylinder • Identify and describe the properties 3-d shape, including the number of edges, vertices and faces.	Tens, ones, number names, before, after, more than, less than	Numicon Dienes Numberlines shapes
3	Subtraction Time		• Solve problems using addition and subtraction • Add and subtract to 50 and beyond using a number line, concrete objects, pictorial representations, including those involving numbers and measures. • Applying their knowledge of mental and written methods. • Recall and use addition facts to 20.	Addition, plus, more than, bigger, equals	Numicon Dienes Numberlines clocks

			• Add a two—digit number and ones. • Add a two digit number and tens. • Adding three one-digit numbers. • Show that addition of two numbers can be done in any order and subtraction of one number from another cannot. • Read and find times on a clock showing 'o' clock, half past, quarter past and to and draw the hands on a clock face to show these times. • Compare and sequence intervals of time. • Know the number of minutes in an hour and the number of hours in a day.		
4	Multiplication Time		• Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. • Show that multiplication of two numbers can be done in any order. • Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods. • Calculate mathematical statements for multiplication using the x and = signs. • Read and find times on a clock showing 'o' clock, half past, quarter past and to and draw the hands on a clock face to show these times. • Compare and sequence intervals of time. • Know the number of minutes in an hour and the number of hours in a day.	Addition, plus, more than, bigger, equals	Numicon Dienes Numberlines clocks

5	Division Capacity		• Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. • Show that multiplication of two numbers can be done in any order. • Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods. • Calculate mathematical statements for multiplication using the x and = signs. • Compare and order lengths, mass and capacity record the results using <, > and = • Choose and use appropriate standard units to estimate and measure length and height in cm/m, mass kg/g, temperature 'C and capacity litres/ml to the nearest appropriate unit, using rulers scales thermometers and measuring vessels..	Subtract, less than, smaller	Numicon Dienes Numberlines rulers
6	Fractions Capacity		• Solve problems using subtraction • Subtract to 50 and beyond using a number line, concrete objects, pictorial representations, including those involving numbers. • Applying their knowledge of mental and written methods. • Recall and use addition facts to 20. • Add a two—digit number and ones • Add a two digit number and tens • Compare and order lengths, mass and capacity record the results using <, > and =	Subtract, less than, smaller	Numicon Dienes Numberlines rulers

			• Choose and use appropriate standard units to estimate and measure length and height in cm/m, mass kg/g, temperature 'C and capacity litres/ml to the nearest appropriate unit, using rulers scales thermometers and measuring vessels.		
7	Money Data handling		• Use £ and p notation to record money. • Find different combinations of coins that equal the same amount of money to 50p. • Solve simple problems in a practical context involving addition and subtraction of money to £1, including giving change. • Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. • Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. • Ask and answer questions about totalling and comparing categorical data.	Coin names, change	Numicon Dienes Numberlines
Autumn 2					
1	Addition 2d shape	Counting in and back in 1s, 2s, 5s and 10s 2 times tables	• Solve problems using addition • Add to 50 and beyond using a number line, concrete objects, pictorial representations, including those involving numbers. • Applying their knowledge of mental and written methods. • Recall and use addition facts to 20. • Add a two—digit number and ones • Add a two digit number and tens	Addition, plus, more than, bigger, equals	Numicon Dienes Numberlines

			• properties of 2d shapes		
2	Subtraction 3d shape		• Solve problems using subtraction • Subtract to 50 and beyond using a number line, concrete objects, pictorial representations, including those involving numbers. • Applying their knowledge of mental and written methods. • Recall and use addition facts to 20. • Add a two—digit number and ones • Add a two digit number and tens • Identify 2-d shapes on the surface of 3-d shapes e.g. the circle on a cylinder	Subtract, less than, smaller	Numicon Dienes Numberlines
3	Multiplication Time		• Recall and use multiplication facts for the 2 and 10 multiplication tables, including recognising odd and even numbers. • Solve problems involving multiplication, using materials, arrays, repeated addition, mental methods. • Read and find times on a clock showing 'o' clock and half past. • Compare and sequence intervals of time.	Lots of, multiply	Numicon Dienes Numberlines
4	Fractions Time		• Recognise, find and name 1/2, 1/4 and 1/3 of length, shape and number • Read and find times on a clock showing 'o' clock and half past. • Compare and sequence intervals of time.	Part, whole, denominator	Numicon Dienes Numberlines objects
5	Fractions Height		• Recognise, find and name 1/2, 1/4 and 1/3 of length, shape and number	Part, whole, denominator	Numicon Dienes

			• Compare and order lengths, mass and capacity record the results using <, > and = Choose and use appropriate standard units to estimate and measure length and height in cm/m, mass kg/g, temperature 'C and capacity litres/ml to the nearest appropriate unit, using rulers scales thermometers and measuring vessels..		Numberlines objects
6	Money Height		• Use p notation to record money. • Find different combinations of coins that equal the same amount of money to 50p. • Solve simple problems in a practical context involving addition and subtraction of money to 50p. • Compare and order lengths, mass and capacity record the results using <, > and = Choose and use appropriate standard units to estimate and measure length and height in cm/m, mass kg/g, temperature 'C and capacity litres/ml to the nearest appropriate unit, using rulers scales thermometers and measuring vessels..	Coin names, change	Numicon Dienes Numberlines
7	Number and place value Data handling		• Count in 2's, 5's and 10's from any number forwards and backwards • Recognise the place value of each digit in a two-digit number (tens, ones) • Use place value and number facts to solve problems. • Identify, represent and estimate numbers using different representations, including the number line.	Tens, ones, number names, before, after, more than, less than	Numicon Dienes Numberlines

			• Compare and order numbers from 0 up to 100, use <, > and = signs • Read and write numbers to at least 100 in numerals and words. • Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. • Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. • Ask and answer questions about totalling and comparing categorical data.		