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MULTI ACADEMY TRUST  
BIRMINGHAM  
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# Year 2 Maths Long Term Plan

	Autumn Term
Week & Focus	Objectives
1 Number and Place Value Unit 1	<ul style="list-style-type: none"> <li>Recognise the place value of each digit in a two-digit number practically</li> <li>Recognise the place value of each digit in a two digit number (tens and ones)</li> <li>Identify, represent and estimate numbers using different representations, including the number line</li> <li>Compare and order numbers from 0 up to 10, use <math>&lt;</math>, <math>&gt;</math> and <math>=</math> signs</li> <li>Read and write numbers to at least 100 in numerals and in words</li> <li>Use place value and number facts to solve problems</li> </ul>
2 Number and Place Value Unit 5	<ul style="list-style-type: none"> <li>Read and write numbers to at least 100 in numerals and in words</li> <li>Count in steps of 2, 3, &amp; 5 from 0 and in tens from any number forwards and backwards</li> <li>Use a number square to identify ten more and ten less</li> <li>Partition two-digit numbers</li> <li>Use a number square to calculate 9 more, 9 less, 11 more and 11 less by adjusting</li> </ul>
3 Number and Place Value Unit 9	<ul style="list-style-type: none"> <li>Use place value and number facts to solve problems</li> <li>Apply knowledge of numbers to 1000 to read scales to the nearest appropriate standard unit in the context of length (m/cm) mass (kg/g) capacity (litres/ml) and temperature (<math>^{\circ}</math>C)</li> </ul>
4 Addition and Subtraction Unit 1	<ul style="list-style-type: none"> <li>Add three 1 digit numbers</li> <li>Show that two numbers eg: <math>2 + 8</math> is the same as <math>8 + 2</math> using images</li> <li>Derive and use addition and subtraction facts to 20</li> <li>Solve problems with addition and subtraction; using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100</li> <li>Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</li> <li>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations</li> <li>Solve missing number problems using inverse</li> </ul>
5 & 6 Addition & Subtractions Unit 2 (2 weeks)	<ul style="list-style-type: none"> <li>Solve problems with addition and subtraction; using concrete objects and pictorial representations, including those involving numbers, quantities or measure</li> <li>Add or subtract a 2-digit number and a 1 digit number by making jottings and using a number line</li> <li>Beginning to record addition and subtraction number equations in columns</li> <li>Beginning to add and subtract numbers mentally, including a 3-digit number and ones, tens and hundreds</li> <li>Beginning to add and subtract numbers with up to 3 digits using formal written methods of columnar addition and subtraction</li> <li>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations</li> <li>Solve missing number problems using invers</li> </ul>
7 Measurement Length & Height Unit 2	<ul style="list-style-type: none"> <li>choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) to the nearest appropriate unit, using rulers</li> <li>compare and order lengths and record the results using <math>&gt;</math>, <math>&lt;</math> and <math>=</math></li> </ul>
8 Measurement Time Unit 4	<ul style="list-style-type: none"> <li>compare and sequence intervals of time</li> <li>tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times</li> <li>know the number of minutes in an hour and the number of hours in a day</li> </ul>
9 & 10 Multiplications and Division Unit 3 (2 weeks)	<ul style="list-style-type: none"> <li>use arrays to understand multiplication</li> <li>understand multiplication as 'lots of' or 'groups of' when using concrete objects</li> <li>use arrays to support use of division</li> <li>understand division as sharing when using concrete objects</li> <li>calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>) division (<math>\div</math>) and (<math>=</math>) signs</li> <li>show that multiplication of two numbers can be done in any order (commutative)</li> <li>show that division of two numbers by another cannot be done in any order</li> </ul>



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	Spring Term
Week Focus	Objectives
1 Addition & Subtraction Including measurement (money) Unit 5	<ul style="list-style-type: none"> <li>Solve problems with addition and subtraction               <ul style="list-style-type: none"> <li>Using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>Applying their increasing knowledge of mental methods</li> </ul> </li> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including               <ul style="list-style-type: none"> <li>A two-digit number and ones</li> </ul> </li> <li>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems</li> <li>Recognise and use symbols for pounds (£ and pence (p)); combine amounts to make a particular value</li> <li>Find different combinations of coins that equal the same amounts of money</li> </ul>
2 & 3 Addition & Subtraction including measurement (money) Unit 7 (2 weeks)	<ul style="list-style-type: none"> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including;               <ul style="list-style-type: none"> <li>A two-digit number and tens</li> <li>Adding three one-digit numbers</li> <li>solve problems with addition &amp; subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>Applying their increasing knowledge of mental methods</li> </ul> </li> <li>Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</li> <li>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems</li> <li>Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</li> <li>Find different combinations of coins that equal the same amounts of money</li> <li>Solve simple problems in practical context involving addition and subtraction of money of the same unit, including giving change</li> </ul>
4 & 5 Properties of shape (Geometry) Unit 1 & 5 (2 weeks)	<ul style="list-style-type: none"> <li>identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</li> <li>compare and sort common 2-D shapes</li> <li>identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</li> <li>identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</li> <li>compare and sort common 2-D and 3-D shapes and everyday objects</li> </ul>
6 Position & Direction (Geometry) Unit 3	<ul style="list-style-type: none"> <li>order and arrange combinations of mathematical objects in patterns and sequences</li> <li>use mathematical vocabulary to describe position, direction and movement, including movement in a straight line</li> </ul>
7 Fractions Unit 4	<ul style="list-style-type: none"> <li>recognise, find, name and write fractions <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity</li> <li>arrange objects into four equal groups and explain, with help, that each of them is a quarter, and then additional quarters, (eg: 3 groups = <math>\frac{3}{4}</math> identify 2 groups = <math>\frac{1}{2}</math>)</li> <li>count in steps of <math>\frac{1}{4}</math>, saying half rather than <math>\frac{2}{4}</math> and <math>1\frac{1}{2}</math> instead of <math>\frac{6}{4}</math></li> </ul>
8 Fractions Unit 8	<ul style="list-style-type: none"> <li>recognise, find, name and write fractions <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity</li> <li>write simple fractions, for example, <math>\frac{1}{2}</math> of 8 = 4 and <math>\frac{1}{3}</math> of 6 = 2 using objects or images</li> <li>understand that <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math> are equal</li> </ul>
9 Fractions Unit 12	<ul style="list-style-type: none"> <li>recognise, find, name and write fractions <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity</li> <li>write simple fractions for example, <math>\frac{1}{2}</math> of 6 = 3 and recognise, the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math></li> </ul>
10 & 11 Multiplication & division Unit 6 (2 weeks)	<ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</li> <li>calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (=) signs</li> <li>show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</li> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts</li> </ul>



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	Summer Term
Week Focus	Objectives
1 Addition & Subtraction including measurement Unit 9	<ul style="list-style-type: none"> <li>Solve problems with addition &amp; subtraction               <ul style="list-style-type: none"> <li>Including those involving numbers, quantities and measures</li> <li>Applying their increasing knowledge of mental and written methods</li> </ul> </li> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including               <ul style="list-style-type: none"> <li>two two-digit numbers</li> </ul> </li> <li>Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</li> <li>Recognize, and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems</li> </ul>
2 & 3 Addition & subtraction Including measurement Unit 11 (2 weeks)	<ul style="list-style-type: none"> <li>Solve problems with addition &amp; subtraction               <ul style="list-style-type: none"> <li>Including those involving numbers, quantities and measures</li> <li>Applying their increasing knowledge of mental and written methods</li> </ul> </li> <li>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including               <ul style="list-style-type: none"> <li>two two-digit numbers</li> </ul> </li> <li>Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot</li> <li>Recognize, and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems involving numbers, quantities or measuring using concrete objects or pictorial representations to help me</li> </ul>
4 & 5 Multiplication & Division Unit 10 (2 weeks)	<ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</li> <li>calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (=) signs</li> <li>show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</li> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts</li> </ul>
6 Multiplication & Division Unit 12	<ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</li> <li>calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (<math>\times</math>), division (<math>\div</math>) and equals (=) signs</li> <li>show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot</li> <li>solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts</li> </ul>
7 Measurement Time Unit 12	<ul style="list-style-type: none"> <li>compare and sequence intervals of time</li> <li>tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times</li> <li>know the number of minutes in an hour and the number of hours in a day</li> </ul>
8 Measurement Mass Unit 6	<ul style="list-style-type: none"> <li>choose and use appropriate standard units to estimate and measure mass (kg/g) to the nearest appropriate unit, using scales</li> <li>compare and order mass and record the results using <math>&gt;</math>, <math>&lt;</math> and <math>=</math></li> </ul>
9 Measurement Volume & Capacity Unit 8	<ul style="list-style-type: none"> <li>choose and use appropriate standard units to estimate and measure capacity (litres/ml) to the nearest appropriate unit, using measuring vessels</li> <li>compare and order volume/capacity and record the results using <math>&gt;</math>, <math>&lt;</math> and <math>=</math></li> </ul>
10 Measurement Temperature Unit 10	<ul style="list-style-type: none"> <li>choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (<math>^{\circ}\text{C}</math>); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</li> <li>compare and order lengths, mass, volume/capacity and record the results using <math>&gt;</math>, <math>&lt;</math> and <math>=</math></li> </ul>
11 Position & Direction (Geometry) Unit 9	<ul style="list-style-type: none"> <li>use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)</li> </ul>
12 Statistics Unit 11	<ul style="list-style-type: none"> <li>interpret and construct simple pictograms block diagrams and simple tables</li> <li>ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity</li> <li>ask and answer questions about totalling and comparing categorical data</li> </ul>