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**Math Lesson Plan**  
**2nd Grade Curriculum**  
**Total Activities: 116**

Chapter -"Number Sense"-The learner will understand numeration, number theory, and number systems.		
Lesson Code	Lesson Title and Description	LA Number
1	Hundreds, Tens, & Ones-Count and group objects into hundreds, tens, and ones. Identify a given number in expanded form. Identify the value of a given digit within a number up to the hundreds place.	20158 20236 2B003
2	Write Numbers -Read and write number words up to ninety-nine and match them to numerals.	20148
3	Compare Numbers-Compare and order numbers using symbols such as $<$ , $=$ , and $>$ . When given any number up to 1,000, identify one more than, one less than, 10 more than, 10 less than, 100 more than, and 100 less than.	20159 20179
4	Ordinal Numbers-Read and understand ordinal numbers 1st - 100th. Identify ordinal number words first - tenth by name.	20160 2B004
5	Equivalent Forms of Numbers-Using	20161

	diagrams, pictorial representations, and numerical expressions, represent equivalent forms of various numbers up to 1000.	
6	Skip Counting-Count up to 1000 by fives, tens, twenty-fives, fifties, and hundreds using mental math and pictorial representations.	20237
10	Counting by 2's, 3's, 4's, 5's and 10's -Count by 2s, 3s, 4s, 5s and 10s.	2B002
7	Zero as a Placeholder-Use zero as a placeholder and identify 10 tens as 100, 10 hundreds as 1000.	20162
8	Number Line and Rounding-Locate numbers up to 1000 on a number line. Use a number line to round numbers to the nearest 10.	20238 20239
9	Odd and Even Numbers-Identify odd and even numbers.	20176
11	Sums and Differences: Even or Odd?-Determine if a sum or difference is odd or even.	2B001
Chapter - "Fractions"-The learner will understand relationships among numbers and ways of representing fractions.		
Lesson Code	Lesson Title and Description	LA Number
1	Equal Parts of a Whole-The learner will identify, model, and record fractions that represent more than one equal part of a whole.	20180
2	Equal Parts of a Group-The learner will identify, model, and record equal parts of groups.	20181
3	More About Fractions-The learner will identify words for fractional parts such as halves, thirds, quarters,	20182 20299

	and eighths and fractions representing 1 whole.	
Chapter -"Operations"-The learner will understand the meanings of operations and how they relate to one another.		
Lesson Code	Lesson Title and Description	LA Number
1	Fact Families-Solve addition and subtraction facts up to 18 by using inverse operations. Describe the related facts that make up a fact family.	20240 2B020
2	Grouping Property-Use the Associative Property of Addition to solve addition problems involving three addends.	20241
3	Two-digit Addition-Solve addition problems involving two-digit numbers with regrouping.	20242
8	Adding Whole Numbers-Add single- and two-digit whole numbers.	2B005 2B006 2B007 2B008 2B009 2B010 2B011
4	Two-digit Subtraction-Solve subtraction problems involving two-digit numbers with regrouping.	20243
11	Subtracting Whole Numbers-Subtract single-digit numbers from single- and two-digit numbers and two-digit numbers from two-digit numbers.	2B012 2B013 2B014 2B015 2B018 2B016 2B017
10	Adding and Subtracting Zero-Determine that adding or subtracting zero does not change the result.	2B019

6	Multiplication-Identify multiplication as repeated addition. Multiply two one-digit numbers by 2, 3, and 5 using an array.	20244
7	Division-Explain division as equal parts of a set. Divide a number up to 30 by 2, 3, or 5 using pictorial representations.	20245
9	Estimate Sums & Differences- Estimate reasonable answers to addition and subtraction problems with sums to 100.	20246
Chapter - "Money"-The learner will understand the concept of money.		
Lesson Code	Lesson Title and Description	LA Number
1	Identify Money-Identify pennies, nickels, dimes, quarters, and half-dollars and their values. Count pennies, nickels, dimes, and quarters up to 50¢.	20155 20177
2	Count Mixed Coins-Count mixed collection of coins.	20154 20178
3	Model Money Amounts-Model the same amount in more than one way. Model an amount using the fewest coins.	20152 20183
4	Add and Subtract Money-Solve addition and subtraction problems involving money, with and without regrouping.	20156 20184
Chapter - "Patterns"-The learner will understand patterns, relations, and functions.		
Lesson Code	Lesson Title and Description	LA Number
1	Sort Objects-Sort objects by attributes of shape, size, or color.	20163 20185

	Recognize and explain how patterns are made (e.g. repetition, transformation, or other changes to attribute).	
2	Venn Diagrams-Sort objects using Venn diagram with one intersection.	20164
3	Pattern Rules-Describe a given pattern and explain the pattern rule.	20122
4	Build Patterns-Predict, extend, and create patterns that are pictorial or symbolic. Transfer patterns from one medium to another (e.g., change red, red, blue, green, red to 1,1,2,3,1).	20123
5	Compare Patterns-Compare repeating and growing patterns and analyze how they are generated.	20165
6	Real World Patterns-Identify patterns in the real world such as repeating, tessellating, and patchwork.	20145
7	Patterns on a Hundreds Chart-Identify number patterns on a hundred chart.	20142
8	Number Patterns-Predict and extend a linear pattern.	20153 20247
Chapter -"Algebra"-The learner will represent and analyze mathematical situations and structures using algebraic symbols.		
Lesson Code	Lesson Title and Description	LA Number
1	Order Property-Use the Commutative Property of Addition to solve problems. Check the sum by changing the addends. Solve two-digit equations with one unknown.	20143
2	Equalities and Inequalities-Use pictorial representations and numbers to explore equalities and inequalities.	20144

3	Greater Than and Less Than-Solve number sentences with equalities and inequalities using the symbols $<$ , $=$ , $>$ .	20146
4	Two-digit Problems-Using models, pictures, and algorithms, solve problems involving the addition and subtraction of two-digit numbers with and without regrouping.	20166
5	Real World Equations-Solve real-world addition and subtraction equations with one unknown.	20167
6	Balance Equations-Create models that explore the concept of an equation being balanced.	20168
Chapter -"Geometry "-The learner will analyze characteristics and properties of two-and three-dimensional shapes.		
Lesson Code	Lesson Title and Description	LA Number
1	Plane Shapes-Describe and create plane shapes such as squares, rectangles, triangles, hexagons, trapezoid, and parallelograms.	20072
2	Solid Shapes-Describe and create solids shapes such as cubes, rectangular prisms, spheres, cylinders, cones, and pyramids.	20065
3	Classify Shapes-Describe, classify, and sort two- and three-dimensional shapes according to their attributes (sides, corners, faces, curves). Explain which attribute is being used for classification.	20074
5	Faces of Solids-Identify plane shapes as faces of solid shapes.	20075
6	Similar and Congruent-Identify similar and congruent two-dimensional objects.	20068

7	Parallel and Perpendicular-Identify lines as parallel or perpendicular.	20067
8	Horizontal and Vertical Lines-Identify lines as horizontal or vertical.	20066
Chapter - "Positions"-The learner will specify locations and describe spatial relationships using coordinate geometry.		
Lesson Code	Lesson Title and Description	LA Number
1	Position Words-The learner will identify, locate, and move objects according to positional words such as to the left, above, and behind.	20078
2	Directional Words-The learner will identify the location of objects according to two directions such as upper-right, upper-left, lower-right, and lower-left.	20077
3	Using a Map-The learner will locate objects on the first quadrant of a coordinate grid.	20081
4	Plot Numbers on Number Line-The learner will locate, plot, and identify known and unknown numbers on a number line from 0 to 50 by twos and from 1 to 100 by fives.	20079
Chapter - "Using Shapes"-The learner will apply transformations and use symmetry to analyze mathematical situations.		
Lesson Code	Lesson Title and Description	LA Number
1	Slides, Flips, and Turns-Identify and demonstrate slides, flips, and turns using pictures.	20080
2	Congruent Figures-Recognize congruent figures under slides, flips, or turns.	20082

3	Reflections-Match, predict, and identify the reflection of a two-dimensional shape.	20083
4	Line Symmetry-Identify and create figures with line symmetry.	20084 2B021
5	Types of Line Symmetry-Identify and create vertical and horizontal lines of symmetry.	20085
Chapter -"Spatial Sense"-The learner will use visualization, spatial reasoning, and geometric modeling to solve problems.		
Lesson Code	Lesson Title and Description	LA Number
1	Make Plane Shapes-Separate or combine plane shapes to create new plane shapes.	20088
2	Perimeter and Area-Explore perimeter and area of two-dimensional shapes.	20086
3	Find the Area -Identify area as the number of squares it takes to cover a plane object.	20087
Chapter -"Time "-The learner will understand the attributes of time and apply appropriate techniques, tools, and formulas to determine measurement.		
Lesson Code	Lesson Title and Description	LA Number
1	Time to the Hour and Half-hour-The learner will tell time to the hour and half-hour on analog and digital clocks.	20115 20169
2	Time to Nearest Quarter-hour-The learner will tell time to the nearest quarter-hour using digital and analog clocks by counting time in five-minute intervals.	20116
3	AM, PM and Elapsed Time-The	20133

	learner will describe time as A.M. or P.M., identify noon and midnight, and solve simple problems of elapsed time.	20248
4	Units of Time-The learner will identify relationships of time, such as seconds in a minute, minutes in an hour, days in a week, and months in a year.	20117
5	Months and Measuring Time-The learner will identify names of the months in order and their lengths and identify appropriate tools for measuring time.	20121 20170
Chapter -"Length"-The learner will understand the attributes of length and apply appropriate techniques, tools, and formulas to determine measurements.		
Lesson Code	Lesson Title and Description	LA Number
1	Measure with Non-standard Unit-The learner will measure and compare lengths using non-standard units and describe lengths in terms of shorter and longer.	20113
2	Measure with Customary Units-The learner will recognize the need for a standard unit of measure and measure and estimate length to the nearest inch, foot, and yard.	20090
3	Tools and Units-The learner will estimate, compare, and measure distance in feet or miles and choose appropriate unit of measurement for various distances.	20092
4	Perimeter-The learner will explore perimeter of squares and rectangles by adding lengths of sides.	20089
5	Measure with Metric Units-The learner will recognize that the metric	20098

	system is another system of measurement and measure length to the nearest centimeter or meter.	
Chapter -"Weight "-The learner will understand the attributes of weight and apply appropriate techniques, tools, and formulas to determine measurements.		
Lesson Code	Lesson Title and Description	LA Number
1	Sort by Weight-The learner will sort and classify objects according to their weight and describe objects in term of lighter, heavier, less than, and more than.	20091
2	Measure with Non-standard Unit-The learner will measure and compare weights using non-standard units and recognize the need for a standard unit of measurement.	20102
3	Measure with Customary Units-The learner will estimate and measure weights in ounces, pounds, and tons and choose the most reasonable measurement of a specific item.	20114
4	Measure with Metric Units-The learner will recognize that the metric system is another system of measurement and measure weights to the nearest gram or kilogram.	20101
Chapter -"Capacity "-The learner will understand the attributes of capacity and apply appropriate techniques, tools, and formulas to determine measurements.		
Lesson Code	Lesson Title and Description	LA Number
1	Sort & Classify by Capacity-Sort and classify containers according to their capacity. Describe capacity in terms of emptier, fuller, less than, and more than.	20100

2	Measure with Customary Units- Measure and estimate capacity to the nearest cup, pint, quart, and gallon.	20099
3	Tools and Units-Choose appropriate tool for measuring capacity.	20103
4	Measure with Metric Units- Recognize that the metric system is another system of measurement. Measure capacity to using liters and milliliters.	20151
Chapter -"Temperature"-The learner will understand the attributes of temperature and apply appropriate techniques, tools, and formulas to determine measurements.		
Lesson Code	Lesson Title and Description	LA Number
1	Seasons and Temperatures-Describe temperature of the seasons in terms of cool, cold, warm, and hot.	20118
2	Compare Fahrenheit & Celsius- Compare Fahrenheit and Celsius thermometers.	20171
3	Measure Temperatures-Read a Fahrenheit and Celsius thermometers to tell temperature to the nearest two degrees. Relate reasonable temperatures to the seasons.	20172
Chapter -"Graphing"-The learner will collect, organize, and display relevant data.		
Lesson Code	Lesson Title and Description	LA Number
1	Tally Tables-Create and interpret tally tables.	20150
2	Organize Data into Groups-Collect, organize, and record data into 3 or more categories.	20173
3	Organize Data into Graphs-	20186

	Organizes data into simple graphs such as pictographs and bar graphs.	
4	Transfer Data to Graphs-Transfer data from a chart of two or three categories to a bar or picture graph.	20174
Chapter - "Using Data"-The learner will select and use appropriate statistical methods to analyze data.		
Lesson Code	Lesson Title and Description	LA Number
1	Compare Data-Identify and interpret information such as range, mode, and median from a graph or chart.	20175
2	Make Predictions-Interpret data to make predictions about events or situations.	20147
Chapter - "Probability"-The learner will apply basic concepts of probability.		
Lesson Code	Lesson Title and Description	LA Number
1	Certain and Impossible-Identify whether an event is certain, possible, or impossible.	20149
2	Most Likely and Least Likely-Identify the likelihood of a mathematical event as less likely, likely, or more likely to occur.	20249
3	Predictions Based on Data-Make predictions based on data from activities of chance such as coin flips and spinners.	20250