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**Math Lesson Plan
4th Grade Curriculum
Total Activities: 214**

Chapter -"Number Theory and Systems"-Understand numeration, number theory, and number systems.		
Lesson Code	Lesson Title and Description	LA Number
1	Standard and Expanded Form-Convert numbers containing two to nine digits from standard form to expanded form and vice versa.	40909 40910 40911
2	Write Numbers-Write numbers up to nine digits using oral cues and written cues.	40912 40913 40915
3	Order and Compare Numbers-Order numbers up to nine digits and compare numbers using the symbols $<$, $>$, and $=$.	40922 40923 40924
4	Rounding Numbers-Round numbers to the nearest ten, hundred, thousand, ten thousand, and hundred thousand.	40925 40926 40927 4B003 4B004
Chapter -"Addition and Subtraction"-Understand the meanings of operations and how they relate to one another. (+, -)		
Lesson	Lesson Title and Description	LA

Code		Number
1	Add Whole Numbers-Add whole numbers. (4-digits, up to 3 numbers)	40967 40968 41029
2	Subtract Whole Numbers-Subtract 4-digit numbers with multiple zeros.	40969 40970 41030
3	Estimate Sums and Differences- Estimate sums and differences using rounding and compatible numbers.	40989 41031
Chapter - "Multiplication and Division"-Understand the meaning of operations and how they relate to one another.		
Lesson Code	Lesson Title and Description	LA Number
1	Multiples and Common Multiples- Define multiples, and list multiples of a given number. Identify common multiples of two given numbers.	40856 40860 40861 4B018
2	Partial Products-Multiply 1-digit numbers with 2-digit and 3-digit numbers. Use partial products and mental multiplication as strategies.	40866 40868 40869 4B008 4B009
3	Multiply Large Numbers-Multiply 2-digit numbers with 2 and 3-digit numbers.	40867 40870 4B006 4B007
9	Three-Digit Multiplication-Multiply 3-digit numbers by 3-digit numbers.	4B010 4B011
4	Multiple Factors-Multiply multiple factors.	40872 40888 41147 4B012
5	Factors and Common Factors-Identify factors of a given number and common factors of two given numbers.	40873 40885 40886 40914

		4B016 4B017
6	Dividing with 1-digit Divisors-Divide dividends up to four-digits by one-digit with and without remainders. (Include quotients with 0's)	40887 40890
7	Dividing with 2-digit Divisors-Solve two-digit division problems with and without remainders.	40901 40905 40906 4B013 4B014 4B015
8	Average-Find the average of a set of numbers.	40900 40907 40908
Chapter -"Fractions and Decimals"-Understand relationships among numbers and ways of representing fractional and decimal numbers.		
Lesson Code	Lesson Title and Description	LA Number
1	Parts of a Set or a Whole-Match parts of a set and parts of a whole with equivalent fractions with denominators up to 12.	40977 40978 40979
11	Fractions with 0-Explore fractions with 0 in the numerator and 0 in the denominator.	4B020
2	Improper Fractions-Identify improper fractions, and convert between improper fractions and mixed numbers.	40980 40981 40982 4B028 4B029
3	Equivalent Fractions-Recognize equivalent fractions. Reduce fractions to lowest terms.	40983 40984 4B021 4B022
12	Word Problems With Fractions-Explore word problems with simple	4B030

	fractional answers.	
13	Fractions of Whole Numbers-Explore fractions that simplify to whole numbers.	4B027
14	Finding Common Denominators-Find the lowest common denominators of fractions.	4B023 4B024
4	Compare and Order Fractions-Order fractions with like and unlike denominators 1 through 12 and compare fractions using the symbols $<$, $>$, and $=$.	40986 40987 4B025 4B026
5	Add and Subtract Fractions-Add and subtract fractions with like denominators.	41003 41004 4B031 4B033 4B032
6	Add and Subtract Mixed Numbers-Add and subtract mixed numbers with like denominators.	41006 41007
7	Add/Subtract Unlike Fractions-Add and subtract fractions with unlike denominators up to 12.	41014 41015 4B034 4B035 4B036
8	Compare and Order Decimals-Order decimals and compare the values of two decimals using the signs $<$, $>$, and $=$ up to the thousandths place.	41017 41018
9	Decimals as Fractions-Read and write decimals as fractions.	41022 41023
10	Add and Subtract Decimals-Add and subtract decimals through thousandths.	41025 41026 4B037 4B041 4B038 4B039
Chapter - "Money"-Understand the concept of money.		

Lesson Code	Lesson Title and Description	LA Number
1	Count Money and Make Change-Count and exchange money in amounts up to \$100.00. Solve problems that require making change in amounts up to \$100.00.	40948 40949 40950
2	Add and Subtract Money-Solve addition and subtraction problems involving money.	40956 40957 40958 4B040
3	Multiply and Divide Money-Solve multiplication and division problems involving money.	40959 40960 40961
Chapter - "Patterns"-Understand patterns, relations, and functions.		
Lesson Code	Lesson Title and Description	LA Number
1	Patterns-Identify and extend patterns and apply pattern rules using shapes, colors, and numbers. (repeating, growing patterns)	40894 40895 40896
2	Numeric Patterns-Identify and apply pattern rules using sequences of related numbers. (arithmetic, geometric sequence)	40897 40898 40899
3	Apply Function Rules-Apply the appropriate rule to complete a chart including input/output tables. Solve problems associated with a given relationship using a table of values.	40902 40903 40904
Chapter - "Algebra"-Represent and analyze mathematical situations using algebraic symbols.		
Lesson Code	Lesson Title and Description	LA Number
1	Expressions-Represent written relationships as expressions and use a	40919 40921

	variable to represent an unknown quantity in an expression.	
2	Equations-Explore the idea of a variable by solving for an unknown quantity in an equation. Example: $3 + a = 7$.	40931 40932 40933 4B005 4B019
3	Properties-Use the Commutative and Associative Properties of Addition and Multiplication to find equivalent expressions or equations containing an unknown quantity.	40942 40943 40944 4B001 4B002
Chapter - "Properties of Shapes"-Analyze characteristics and properties of 2- and 3-dimensional shapes.		
Lesson Code	Lesson Title and Description	LA Number
6	Using Geometric Vocabulary-An introduction to geometric vocabulary.	4B058
1	Points, Lines, Segments, Rays-Define, name, and identify points, lines, line segments, rays and angles.	40818 40823 40824 4B047 4B048
2	Classify Angles-Identify and classify angles as right, obtuse, or acute.	40817 40825 40829 4B049 4B050
3	Attributes of Polygons -Identify polygons, regular polygons, and non-polygons and their attributes.(sides, angles, and vertices) Classify polygons into subsets.	40820 40830 40831
4	Attributes of Triangles -Classify triangles according to angle size (right, acute, obtuse) and side lengths (equilateral, isosceles, scalene).	40816 40832 40833 40834 4B051 4B052

5	Attributes of Circles-Identify the radius and diameter of a circle, and calculate one when given the other.	40819 40835 40836
6	Attributes of Solids-Identify the attributes of solid figures such as cubes, prisms, pyramids, cones, cylinders, and spheres. (edges, vertices, and faces) Identify and create two-dimensional representation of a three-dimensional figure.	40822 40837 40838
Chapter -"Coordinate Geometry"-Specify locations and describe spatial relationships using coordinate geometry.		
Lesson Code	Lesson Title and Description	LA Number
1	Ordered Pairs-Plot a point given an ordered pair or write the ordered pair of a point shown on a coordinate grid.(1st quadrant only)	40839 40840 40841
2	Distance and Directions-After being given the distance and navigational directions from the initial point within the first quadrant, write the ordered pair of the final point.	40842 40843
Chapter -"Transformations and Symmetry"-Apply transformations and use symmetry to analyze mathematical situations.		
Lesson Code	Lesson Title and Description	LA Number
1	Similar and Congruent Figures-Given a plane figure, identify the similar or congruent figure.	40826 40827 40828 41140 4B053
2	Transformations-Apply a translation, a reflection, or a rotation to a plane figure. Predict the result. Identify the image of a plane figure as a translation, a reflection, or a rotation.	40844 40845 41141

3	Symmetry-Classify plane figures as having line symmetry, point symmetry, both, or none.	40846 40847 41143
Chapter -"Time"-Understand the attributes of time and apply tools		
Lesson Code	Lesson Title and Description	LA Number
1	Telling Time-Tell and show time to the 5 and 1 minute intervals.	40848 40849 41142
2	Elapsed Time-Find elapsed time using minutes, hours, days, and weeks.	40821 40862 40863 40864
3	Time Schedules-Interpret time schedules using minutes, hours, days, and weeks.	40937 40938 41148
Chapter -"Customary System"-Use the customary system of measurement to understand the attributes of length, weight, capacity, and temperature and apply appropriate measuring techniques.		
Lesson Code	Lesson Title and Description	LA Number
1	Length-Define units of length. (inch, foot, yard, mile) Estimate and compare length. Measure to the nearest quarter-inch.	40916 40917 40918
2	Converting Length-Convert measurements of length to new units.	40928 40929 40930
3	Capacity-Define units of capacity. (cup, pint, quart, gallon) Estimate and compare capacity.	40934 40935 40936
4	Converting Capacity-Convert measurements of capacity to new units.	40939 40940 40941

5	Weight-Define units of weight. (ounce, pound, ton) Estimate and compare weight.	40945 40946 40947
6	Converting Weight-Convert measurements of weight to new units.	40951 40952 40953
7	Temperature-Read thermometer to nearest 2-degree interval. Compute change in temperature.	40954 40955 41033
Chapter - "Metric System"-The learner will use the metric system of measurement to understand the attributes of length, weight, capacity, and temperature and apply appropriate measuring techniques.		
Lesson Code	Lesson Title and Description	LA Number
1	Length-Define units of length. (centimeter, decimeter, meter) Estimate and compare length. Measure to the nearest centimeter.	40962 40963
2	Converting Length-Convert measurements of length to new units.	40964 40965 40966
3	Capacity-Define units of capacity. (milliliter, liter) Estimate and compare capacity.	41009 41010
4	Converting Capacity-Convert measurements of capacity to new units.	41020 41021
5	Mass-Define units of mass. (gram, kilogram) Estimate and compare mass.	41011 41012
6	Converting Mass-Convert measurements of mass to new units.	40997
7	Temperature-Read thermometer to nearest 2-degree interval. Compute change in temperature.	41000 41001
Chapter - "Perimeter, Area, and Volume"-Understand the		

attributes of perimeter, area, and volume capacity and apply appropriate techniques, tools, and formulas to determine measurements.

Lesson Code	Lesson Title and Description	LA Number
1	Perimeter-Find perimeter by counting units and by adding lengths. Measure to find the perimeter. Select appropriate label for measurement.	40971 40972 4B054 4B055 4B056
2	Area-Find area by counting units. Multiply to find area. Select appropriate labels of measurement.	40974 40975
3	Comparing Perimeter and Area-Compare perimeter and area.	40991 40992
4	Volume-Find volume by counting units. Multiply to find volume. Select appropriate labels of measurement.	40994 40995 4B057

Chapter - "Display and Interpret Data"-Display and interpret data in charts and graphs.

Lesson Code	Lesson Title and Description	LA Number
1	Frequency Tables-Display and interpret data in frequency and cumulative frequency tables, compare data, and draw conclusions.	40858 40865
2	Bar Graphs-Display and interpret data in bar and double bar graphs, compare data, and draw conclusions.	40859 40874 40877
3	Line and Stem-and-Leaf Plots-Display and interpret data in line and stem-and-leaf plots, compare data, and draw conclusions.	40875 40876 40878
4	Line Graphs-Display and interpret data in a line graph, compare data, and draw conclusions.	40879 40880 40881

5	Mean, Median, Mode, and Range- Identify the mean, median, mode, and range from a set of data or a graph.	40882 40883 40884
Chapter - "Probability"-Apply basic concepts of probability.		
Lesson Code	Lesson Title and Description	LA Number
1	Certainty and Likelihood-Determine certainty, likelihood, and fairness of events.	40850 40851 41144
2	Possible Combinations-Determine and list the possible combinations of an event.	40852 40853 41145
3	Calculate Probability-Calculate probability as a fraction.	40854 40855 41146
Chapter - "Problem-Solving"-The learner will learn heuristics and methods for solving problems.		
Lesson Code	Lesson Title and Description	LA Number
1	Basics to Solving Problems-An introduction to the basics of problem solving. Use diagrams, build charts, make lists, and build addition and subtraction equations to solve problems. Determine which arithmetic operation is represented in word problems.	4B043 4B045 4B044 4B046 4B042