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Math Lesson Plan
5th Grade Curriculum
Total Activities: 182

Chapter - "Number Theory and Systems"-The learner will understand numeration, number theory, and number systems.		
Lesson Code	Lesson Title and Description	LA Number
1	Read and Write Numbers-Use numeric digits and words to read and write numbers up to the hundred billions.	5302 5303 5400 5403 56279
2	Numbers in Expanded Form-Write numbers in expanded form.	5325 5326
3	Round to 10's & 100's-Round to the nearest ten; to the nearest hundred.	5402 5405
4	Powers of 10-Identify powers of 10 through the 6th power.	56280
5	Exponents-Explore exponents as repeated multiplication.	56281
6	Greatest Common Factor-Determine the greatest common factor of given numbers.	5329 5330 56282
7	Prime Numbers-Identify prime numbers less than 50.	5333 5334
8	Prime Factorization-Define and identify prime and composite numbers up to 50. Find the prime factorization	56283

	of numbers up to 50.	
Chapter - "Multiplication and Exponents"-The learner will understand the meanings of operations and how they relate to one another (multiplication and exponents).		
Lesson Code	Lesson Title and Description	LA Number
1	Least Common Multiple-Determine the least common multiple of given numbers.	5331 5332 56284
2	Properties-Describe and apply the Commutative, Associative, and Distributive Properties for multiplication. (Different notations of multiplication.)	5319 5320 56182
3	Mental Computation Strategies-Demonstrate mental computation strategies for multiplication.	5321 5322
4	Estimate Products-Estimate products of whole numbers.	5323 5324
5	Four-digit Multiplication-Multiply using four-digit numbers.	5327
6	Exponential Expressions-Evaluate exponential expressions involving squares and cubes.	56183
7	Skills & Strategies-Analyze and solve problems using multiplication skills and strategies.	5335 5336
Chapter - "Division"-The learner will understand the meanings of operations and how they relate to one another. (division)		
Lesson Code	Lesson Title and Description	LA Number
1	Opposite Operations-Show multiplication and division as opposite operations.	5394 5395
2	Dividend, Divisor & Quotient-Explain the terms: dividend, divisor, and	5389 5393

	quotient and what it means for one number to be divisible by another number.	
3	Divisibility Rules-Apply the Divisibility Rules of 2, 3, 5, 9, and 10 to various numbers.	56285
4	Properties of Division-Explain rules of division; cannot divide by 0; any number divided by 1 equals that number.	56286
5	Estimate Quotients-Use compatible numbers to estimate quotients.	56287
6	Four-digit Dividends-Divide dividends up to four digits by one-digit, two-digit, and three-digit divisors.	5390 5391
7	Division Check-Check division by multiplying (and adding remainder).	5328 5351 5352
8	Order of Operations-Apply the order of operations, excluding roots.	56184
Chapter -"Fractions"-The learner will understand relationships among numbers and ways of representing fractional numbers.		
Lesson Code	Lesson Title and Description	LA Number
1	Comparing Fractions-Using the signs $<$, $>$, and $=$, compare fractions with like and unlike denominators.	5355 5356 56288
2	Least Common Denominator-Determine the least common denominator of fractions with unlike denominators.	56289
3	Equivalent Fractions-Find equivalent fractions, and write fractions in simplest form.	5359 5360
4	Identify the Reciprocal-Identify the	5361 5362

	reciprocal of a given fraction; know that the product of a given number and its reciprocal = 1.	
5	Add and Subtract Fractions-Add and subtract fractions (with like and unlike denominators) with and without regrouping, and express answers in simplest form.	5363 5364 56290
6	Add and Subtract Mixed Numbers-Add and subtract mixed numbers (with like and unlike denominators) with and without regrouping, and express answers in simplest form.	56291
7	Multiply Mixed Numbers-Multiply mixed numbers and fractions.	5367 5368
8	Round Fractions-Round fractions to the nearest whole number.	5369 5370
9	Fractions and Decimals-Write fractions as decimals.	5371 5372 56292
Chapter -"Decimals"-The learner will understand relationships among numbers and ways of representing decimal numbers.		
Lesson Code	Lesson Title and Description	LA Number
1	Read & Write Decimals-Read, write, and order decimals to the nearest ten-thousandth.	5380 5385
2	Decimals on the Number Line-Read and write decimals on a number line.	56293
3	Comparing Numbers-Use $<$, $>$, $=$ to compare decimals through thousandths. Order decimals through thousands.	5401 5404 56294
4	Round Decimals-Round decimals to the nearest tenth; to the nearest hundredth; to the nearest thousandth.	5381 5386

5	Estimate Decimals-Estimate decimal sums, differences, and products by rounding.	5382 5387
6	Estimate Sums & Differences-Estimate sums and differences for whole numbers and decimals.	5304 5406
7	Add and Subtract Decimals-Add and subtract decimals through ten-thousandths.	56295
8	Multiply and Divide by 10-Multiply and divide decimals by 10, 100, and 1000. Move the decimal point.	5383 5388 56296
9	Multiply Decimals by Decimals-Multiply decimals by other decimals.	56297
10	Divide Decimals-Divide decimals by whole numbers and other decimals.	5384
Chapter -"Ratios and Percents"-The learner will understand relationships among numbers and ways of representing ratios and percents.		
Lesson Code	Lesson Title and Description	LA Number
1	Simple Ratios-Determine and express simple ratios.	5453 5454
2	Equivalent Ratios-Find equivalent ratios.	56298
4	Fractions, Decimals, and %-Recognize the percent sign and understand percent as per hundred. Express equivalences between fractions, decimals, and percentages, and know common equivalencies.	5461 5462 56299
3	Speed as a Ratio-Using the formula $S = D/T$ (or $D = S \times T$), solve problems about speed as a ratio.	5459 5460
5	Find a Percent-Find a given percent of a number.	5465

Chapter -"Algebra"-The learner will understand algebraic concepts.		
Lesson Code	Lesson Title and Description	LA Number
1	Algebraic Expressions-Write algebraic expressions from phrases or word problems and substitute given values for variable to find value of expression.	56315
2	Solve Equations with Add/Sub-Solve one-step algebraic equations using addition or subtraction. ($x - 5 = 11$)	56316
3	Solve Equations with Mult/Div-Solve one-step algebraic equations using multiplication or division. ($5x = 15$)	56317 56376
Chapter -"Geometry"-The learner will analyze characteristics and properties of two- and three-dimensional shapes.		
Lesson Code	Lesson Title and Description	LA Number
1	Point, Line, Segment & Ray-Identify and draw points, segments, rays, and lines.	5413
2	Identify Types of Lines-Identify and draw horizontal, vertical, perpendicular, parallel, and intersecting lines.	5414 5420
3	Draw a Circle-Using a compass, draw circles with a given diameter or radius.	5421 5422
4	Angles-Using a protractor, measure the degrees in right, acute, obtuse and straight angles.	5423 5430 56263
5	Construct Triangles-Identify and construct with compass and straight edge, equilateral, right, and isosceles triangles.	5424 5431

6	Triangles-Classify triangles as equilateral, right, or isosceles. Apply properties of triangles to find missing side length or angle.	56264
7	Polygons-Sort polygons by attributes. Classify quadrilaterals as parallelograms, trapezoids, rhombi, rectangles and squares.	5301 5305 5425 5426 56000 56260
8	Regular Polygons-Know that regular polygons have sides of equal length and angles of equal measure.	56001 56278
9	Interior Angle Sum Theorem-Use triangles and quadrilaterals to draw conclusions about the sum of the interior angle measurements. Identify and draw diagonals of polygons.	56002 56265
10	Circles-Identify arc, chord, radius, and diameters of circles. Calculate the radius or diameter of a circle.	5415 5427 56261
11	Polyhedrons-Sort polyhedrons by their attributes.	56262 56375
Chapter -"Coordinate Geometry"-The learner will specify locations and describe spatial relationships using coordinate geometry.		
Lesson Code	Lesson Title and Description	LA Number
1	Plotting Points-Plot points on a coordinate plane, using ordered pairs of positive and negative whole numbers.	5411 5416
2	Distance Between Lines-Identify the basic characteristics of the coordinate plane. Find the distance between a pair of horizontal or vertical lines on a coordinate grid.	56269
3	Translations-Transform a figure on a coordinate grid. (translation)	56270

4	Distance and Directions-Use fixed and relative directions to find the coordinates of a point.	56271
5	Point and Line Relationships-Use coincident, collinear, parallel and perpendicular to describe relative orientation on a coordinate grid.	56273
Chapter -"Transformations and Symmetry"-The learner will apply transformations and use symmetry to analyze mathematical situations.		
Lesson Code	Lesson Title and Description	LA Number
1	Similarity and Congruence-Explore similarity using congruent angles. Explore congruence using congruent segments and congruent angles.	56274
2	Symmetry-Classify plane figures as having line symmetry, point symmetry, both, or none.	56275
3	Transformations-Apply multiple transformations to a plane figure. Predict the result. Identify the image of a plane figure as the result of a multiple transformation. (Include 90 degree and 180 degree rotations)	56004 56301
Chapter -"Spatial Reasoning"-The learner will use visualization, spatial reasoning, and modeling to solve problems.		
Lesson Code	Lesson Title and Description	LA Number
1	Nets-Identify and create a 2-dimensional representation of a 3-dimensional figure. (nets) (on a grid or dot paper)	56302
2	Building a 3-D Figure-Build 3-dimensional shapes from a set of views.	56303

3	Use Ratios to Create Drawings-Use ratio to create a simple scale drawing.	5457
4	Scale and Relative Size-Use a scale to show relative size on a map or drawing.	56304
Chapter - "Measurement"-The learner will use a variety of tools and techniques to develop measuring skills, and apply the results in problem-solving situations.		
Lesson Code	Lesson Title and Description	LA Number
1	Elapsed Time-Solve problems about elapsed time.	5435 5436 56305
2	Linear in Standard English-Estimate and make linear measurements in yards and in feet and inches (to 1/16 in.).	5437 5438
3	Metric System - Linear-Estimate and make linear measurements in meters, centimeters, and millimeters.	56306
4	Weight in Standard English-Estimate and measure weight in pounds and ounces.	5441 5442
5	Weight in Metric Units-Estimate and measure weight in grams and kilograms.	5443 5444
6	Volume in Standard English-Estimate and measure liquid capacity in teaspoons, tablespoons, cups, pints, quarts, gallons.	5445 5446
7	Volume in Metric Units-Estimate and measure liquid capacity in milliliters and liters.	5447 5448
8	Proportional Reasoning-Determine lengths, weights and capacities using proportional reasoning and indirect measurement.	56307

9	Temperature in Degrees-Using Celsius and Fahrenheit scales, measure temperatures.	5449 5450
10	Skills & Strategies-Analyze and solve problems using measurement skills and strategies.	56308
Chapter -"Calculating Measurements"-The learner will apply appropriate techniques and tools to determine measurements and calculate perimeter, area, and volume.		
Lesson Code	Lesson Title and Description	LA Number
1	Area of Rectangles-Use the formula for the area of a rectangle, and solve problems involving finding area in a variety of square units.	5306 5428 56309
2	Area of Triangles-Using the formula $A = (1/2)(bxh)$, find the area of triangles.	5307 5429 56310
3	Area of a Parallelogram-Using the formula $A = b \times h$, find the area of a parallelogram.	5308 5432
4	Volume of Rectangular Prisms-Using the formula $V = L \times W \times H$, compute the volume of rectangular prisms in cubic units.	5309 5433
5	Skills and Strategies-Analyze and solve problems using measurement skills and strategies.	56311
Chapter -"Data Analysis"-The learner will collect, organize, display relevant data, and use appropriate statistical methods to analyze data.		
Lesson Code	Lesson Title and Description	LA Number
1	Collecting Reliable Data-Identify methods to generate reliable data. (samples, populations, random samples)	56276

2	Data in Graphic Form-Collect and organize data in graphic form.	5409 5410 5417
3	Line Graphs-Interpret line graphs. (interpolation and extrapolation)	56277
4	Circle Graphs-Create and interpret circle graphs (using common fractions)	56312
5	Scatter Plots-Create and interpret scatter plots.	56313
6	Find the Average (mean)-Find the average (mean) of a given set of numbers.	5407 5408
7	Median, Mode, Range-Collect, organize, and describe data using median, mode, and range.	56314
8	Interpret Graphs-Solve problems requiring interpretation and application of graphically displayed data.	5412 5418
Chapter - "Probability"-The learner will apply basic concepts of probability.		
Lesson Code	Lesson Title and Description	LA Number
1	Possible Outcomes-Determine and represent all possible outcomes for a particular probability event using charts, lists, or tree diagrams.	56266
2	Probability of an Event-Calculate the probability of an event.	56267
3	Compare Probabilities-Compare probabilities of separate events.	56268
4	Probability of Events-Use ratios to find the probability of events.	56036
Chapter - "Logic and Discrete Analysis "-The learner will use logical arguments and discrete analysis to solve problems.		

Lesson Code	Lesson Title and Description	LA Number
1	Pertinent & Irrelevant Info-Identify pertinent and irrelevant information when solving problems.	56318
2	Valid and Invalid Arguments-Understand valid and invalid arguments.	56319
3	Solve Logic Problems-Solve logic problems.	56320

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