MATHEMATICS VI
GRADE LEVEL 6

#	Lesson	Lesson Content
1	Number Values	Place value through billions. Decimals place value through thousandths. Word form. Standard form. Expanded form.
2	Number Sense 1	Rounding numbers. Number Ranges. Estimation.
3	Number Operations	Order of operations. Exponents and powers of numbers.
4	Number Sense 2	Square numbers and square roots.
5	Review Test 1	Place value, comparison, and number operations.
6	Review Test 2	Squares and Square Roots.
7	Problem Solving 1	Five step thinking plan. Strategies solving problems.
8	Problem Solving 2	Review of 5-step plan. Selecting relevant information. Working with misleading or unnecessary data. Finding strategy in patterns. Choosing strategy to solve problems.
9	Multiplication 1	Estimating products. Commutative, zero, associative, and one properties.
10	Multiplication 2	Multiplying decimals. Zeros in multiplication.
11	Division	Estimating quotients. Multiplying and dividing by powers of ten. Dividing by one-digit numbers. Dividing by two-digit numbers. Dividing decimals.
12	Review Test 3	Multiplication and division.
13	Number Sense 3	Factors. Divisibility. Prime numbers. Composite numbers. Factor trees. Prime factorization. Greatest common factors. Multiples. Least common multiples.
14	Fractions 1	Equivalent fractions. Comparing fractions. Simplest form. Relating fractions to decimals.
15	Fractions 2	Estimating sums and differences. Adding and subtracting like fractions. Adding and subtracting unlike fractions. Adding and subtracting mixed numbers.
16	Fractions 3	Estimating products. Multiplying fractions and mixed numbers. Simplifying. Dividing fractions and mixed numbers.
17	Review Test 4	Fractions and fraction operations.
18	Organizing Data	Collecting data. Tallies, frequency tables. Mean, median, mode, and range.
19	Graphing Data	Bar graphs. Pictographs, histograms, circle graphs, and stem and leaf plots. Analyzing graphed information.
20	Variables & Equations	Identifying variables. Numerical expressions. Algebraic expressions. Addition and subtraction equations. Multiplication and division equations.
21	Equations & Inequalities	Rational numbers in equations. Solving equations. Solving Inequalities.
22	Review Test 5	Algebraic concepts.
23	Metric Measures	Metric place value. Comparing metric units. Length units. Capacity units. Mass units.
24	Customary Measures	Length units. Capacity units, weight units.
25	Other Measures	Time and temperature.
26	Review Test 6	Measurement.
27	Plane Geometry	Points, lines, rays. Angles. Parallel intersecting, perpendicular, and skew lines. Bisecting lines.
28	Polygons	Triangle classifications. Quadrilateral classifications. Other polygons. Congruence. Similar figures. Symmetry. Motion geometry.
29	Circles	Parts of a circle. Pi. Formulas.

30	Space Figures	Prisms. Pyramids. Faces, edges, and vertices. Bases.
31	Geometric Measurements	Perimeter. Circumference. Area. Surface Area. Volume.
32	Review Test 7	Geometry and measurements.
33	Ratio & Proportion	Ratio. Proportion. Solving proportions. Rates. Using scales.
34	Percent	Percents and decimals. Percents and fractions. Estimation. Finding percents of whole numbers.
35	Probability	Outcomes. Predicting outcomes. Identifying independent events.
36	Integers	Positive integers. Negative integers. Zero. Comparing integers. Adding and subtracting integers.
37	Coordinate Graphing	Ordered Pairs. Coordinate planes. X-axis. Y-axis.
38	Review Test 8	Ratio, Proportion, Percent, Probability, Integers, Ordered Pairs.
39	Comprehensive Test	