**Time4Learning**
**Online Learning for Homeschool and Enrichment**
www.Time4Learning.com
Languages Arts, Math and more
Multimedia Lessons, Interactive Exercises,
Printable Worksheets and Assessments
Student Paced Learning
**It's time for learning. And fun!**

# Math Lesson Plan
# 6th Grade Curriculum
# Total Activities: 302

Chapter -"Whole Numbers"-Students will work with roman numerals and numbers using the base-ten system and perform basic operations.

| Lesson Code | Lesson Title and Description | LA Number |
|---|---|---|
| 1 | Roman Numerals-Students will use roman numerals to solve problems. | MA6111 MA6112 |
| 2 | Generate Equivalent Forms of Whole Numbers-Students will find equivalent forms for whole numbers. | MA6121 MA6122 |
| 3 | Comparing and Ordering Whole Numbers-Students will compare and order whole numbers up to one trillion. | MA6131 MA6132 |
| 4 | Rounding Whole Numbers-Students will round whole numbers up to one trillion. | MA6141 MA6142 |
| 5 | Estimating Whole Numbers-Students will estimate whole numbers when solving problems. | MA6151 MA6152 |
| 6 | Adding and Subtracting Whole Numbers-Students will add and subtract whole numbers up to one trillion. | MA6161 MA6162 |
| 7 | Multiplying and Dividing Whole | 67153 |

| | | |
|---|---|---|
| | Numbers-Students will multiply and divide whole numbers up to four digits. | MA6172 |
| 8 | Dividing Whole Numbers-Students will divide whole numbers with the dividend being no larger than five digits and the divisor being no more than three digits. | MA6181<br>MA6182 |
| 9 | Problem Solving Strategies-Students will apply strategies in order to solve real-life problems. | MA6191<br>MA6192<br>MA6193<br>MA6194<br>MA6195<br>MA6196 |
| Chapter -"Operations with Whole Numbers"-Students will use addition, subtraction, multiplication and division strategies in order to solve problems. | | |
| Lesson Code | Lesson Title and Description | LA Number |
| 1 | Exponents and Square Roots-Students will evaluate expressions using exponents and square roots. | 67258<br>MA6212<br>67116<br>MA6214<br>MA6215<br>MA6216<br>67123<br>MA6218 |
| 2 | Order of Operations (GEMDAS)-Students will apply the order of operations in order to solve problems. | MA6221<br>MA6222 |
| 3 | Variables and Expressions-Students will use variables in order to simplify expressions. | MA6231<br>MA6232<br>MA6233<br>MA6234 |
| 4 | Properties of Addition and Multiplication-Students will apply properties of addition and multiplication when solving problems. | MA6241<br>MA6242<br>MA6243<br>MA6244 |
| 5 | Patterns and Sequences-Students will identify patterns, arithmetic and geometric sequences. | 67200<br>MA6252<br>MA6253<br>MA6254 |

| | | |
|---|---|---|
| 6 | One-Step Equations with Whole Numbers-Students will solve one-step equations using only whole numbers. | MA6261<br>MA6262<br>MA6263<br>MA6264 |
| 7 | Perimeter-Students will find the perimeter of given shapes. | MA6271<br>MA6272 |
| 8 | Area-Students will identify the area of a given shape. | 67208<br>MA6282 |
| 9 | Problem Solving-Students will use choose the method for computation and use models and concrete objects to solve real-life problems. | MA6291<br>MA6292 |
| Chapter Decimals -""-Students will work with decimals and perform all four operations in order to solve problems. | | |
| Lesson Code | Lesson Title and Description | LA Number |
| 1 | Generate Equivalent Forms of Decimals-Students will identify decimal place value and write the number in standard, written and expanded form. | MA6311<br>MA6312<br>67188<br>MA6314 |
| 2 | Comparing and Ordering Decimals-Students will compare and order decimals including using a number line. | MA6321<br>MA6322 |
| 3 | Estimating and Rounding Decimals-Students will round and estimate decimals in performing all four operations. | MA6331<br>MA6332 |
| 4 | Adding and Subtracting Decimals-Students will add and subtract decimals using money. | MA6341<br>MA6342 |
| 5 | Multiplying Decimals-Students will multiply and round decimals. | 67174<br>MA6352 |
| 6 | Dividing Decimals-Students will divide by whole numbers and decimals. | 67175<br>MA6362 |
| 7 | Scientific Notation-Students will compare | 67121 |

| | | |
|---|---|---|
| | rational numbers using scientific notation. | MA6372 |
| 8 | One-Step Equations with Decimals-Students will solve one-step equations with decimals using addition, subtraction, multiplication and division. | MA6381<br>MA6382 |
| 9 | Problem Solving-Students will use the guess and check and reasonableness strategies in order to solve real-life problems. | MA6391<br>MA6392 |
| Chapter -"Fractions"- Students will apply concepts about fractions and perform operations with addition, subtraction, multiplication and division. | | |
| Lesson Code | Lesson Title and Description | LA Number |
| 1 | Introduction to Fractions-Students will identify pictorial and numerical representations of fractions and mixed numbers. | MA6411<br>MA6412 |
| 2 | Lowest Common Multiple-Students will find the lowest common multiple of more than two numbers. | 67117<br>MA6422 |
| 3 | Least Common Denominator-Students will find the least common denominator for two or more fractions. | 67118<br>MA6432 |
| 4 | Divisibility Patterns-Students will divisibility rules for 2, 3, 4, 5, 6, 9 and 10 for sets of numbers. | MA6441<br>MA6442 |
| 5 | Introduction to Prime and Composite Numbers-Students will solve problems using prime factorization. | 67114<br>MA6452 |
| 6 | Factors and GCF-Students will find the factors of whole numbers by listing factors and using prime factorization. | MA6461<br>MA6462 |
| 7 | Simplify Fractions-Students will simplify fractions with prime factorization and greatest common factor. Students will also show division remainders as simplified fractions. | MA6471<br>MA6742 |

| | | |
|---|---|---|
| 8 | Equivalent Fractions-Students will find equivalent fractions by finding the missing variable and applying concepts used to find equivalent fractions for improper fractions and mixed numbers. | MA6481<br>MA6482 |
| 9 | Fractions and Decimals-Students will find equivalent forms for decimals and fraction including repeating decimals. | MA6491<br>MA6492 |
| 10 | Comparing and Ordering Fractions-Students will compare and order fractions including using a number line. | MA64101<br>MA64102 |
| 11 | Estimating and Rounding Fractions-Students will round fractions to the nearest half number and estimate sums, differences, products and quotients. | MA64111<br>MA64112 |
| 12 | Add and Subtract Fractions, Like Denominators-Students will add and subtract fractions with like denominators. | MA64121<br>MA64122 |
| 13 | Adding Fractions with Unlike Denominators-Students will add fractions and mixed numbers with unlike denominators. | MA64131<br>MA64132 |
| 14 | Subtract Fractions with Unlike Denominators-Students will subtract fractions and mixed numbers with unlike denominators. | MA64141<br>MA64142 |
| 15 | Multiplying Fractions-Students will multiply fractions and mixed numbers. | MA64151<br>MA64152 |
| 16 | Dividing Fractions-Students will divide fractions and mixed numbers. | MA64161<br>MA64162 |
| 17 | One-Step Equations with Fractions-Students will solve one-step equations using fractions and all four operations. | MA64171<br>MA64172 |
| Chapter -"Integers"-Students will apply knowledge of integers as they solve problems that require all four operations. | | |
| Lesson Code | Lesson Title and Description | LA Number |

| | | |
|---|---|---|
| 1 | Integers in the Real World-Students will use integers to describe real-life situations and show them on a number line. | MA6511<br>MA6512 |
| 2 | Comparing and Ordering Integers-Students will compare integers and rational numbers. | MA6521<br>MA6522 |
| 3 | Adding and Subtracting Integers-Students will add and subtract using integers. | 67149<br>MA6532<br>67203<br>MA6534 |
| 4 | Multiplying and Dividing Integers-Students will multiply and divide using integers. | MA6541<br>MA6542 |
| 5 | One-Step Equations-Students will solve one step equations with integers including fractions and decimals. | MA6551<br>MA6552 |
| 6 | Problem Solving-Students will use deductive or inductive reasoning, process of elimination or work backwards to solve real-life problems. | MA6561<br>MA6562 |
| Chapter -"Graphing"-Students will analyze, interpret and create graphs. Students will use the information within the organizers to answer questions. | | |
| Lesson Code | Lesson Title and Description | LA Number |
| 1 | Introduction to Graphs-Students will select appropriate representation and present data while justifying their choice. | MA6611<br>MA6612 |
| 2 | Frequency Tables and Line Plots-Students will use frequency tables and identify appropriate intervals. | MA6621<br>MA6622 |
| 3 | Pictographs and Venn Diagrams-Students will use Venn Diagrams, stem-and-leaf plots and line plots. | 67234<br>MA6632 |
| 4 | Bar Graphs-Students will use bar graphs and histograms to answer questions. | MA6641<br>MA6642<br>MA6643<br>MA6644 |

| | | |
|---|---|---|
| 5 | Line Graphs and Line Plots-Students will read and interpret line graphs, double line graphs and line plots. | MA6651<br>MA6652 |
| 6 | Double Bar Graphs and Double Line Graphs-Students will create double bar and line graphs. | MA67233<br>MA6662 |
| 7 | Coordinate Graphing (Quad. I)-Students will locate and plot points on a coordinate graph using ordered pairs. | MA6671<br>MA6672 |
| 8 | Measures of Central Tendency-Students will identify outliers, range, mean, median and mode. | 67229<br>MA6682<br>MA6683<br>MA6684 |
| 9 | Misleading Graphs and Statistics-Students will work with fair surveys. | 67228<br>MA6692 |
| 10 | Stem and Leaf Plots-Students will read and interpret stem and leaf plots. | MA66101<br>MA66102 |
| 11 | Box and Whisker Graphs-Students will read, interpret and create box and whisker graphs. | MA66111<br>MA66112 |
| 12 | Problem Solving-Students will make a table, an organized list, draw a picture or use logic to solve problems. | MA66121<br>MA66122<br>MA66123<br>MA66124 |
| Chapter -"Measurement"-Students will convert between different standards of measurement in order to solve problems. | | |
| Lesson Code | Lesson Title and Description | LA Number |
| 1 | Metric System-Students will identify the property tool and perform conversions using the metric system. | 67177<br>MA6712<br>67178<br>MA6714<br>67176<br>MA6716 |
| 2 | Customary System-Students will use correct tools and perform conversions using the customary system of | 67172<br>MA6722<br>67173 |

| | | |
|---|---|---|
| | measurement. | MA6724<br>67171<br>MA6726 |
| 3 | Measurement-Students will find the approximate measurement to the nearest unit and use reasonableness to determine the best unit for measurement. | MA6731<br>MA6732 |
| 4 | Time and Temperature-Students will estimate and find measures of time and elapsed time as well as customary and metric temperature. | MA6741<br>MA6742 |
| 5 | Area and Perimeter-Students will find area and perimeter of quadrilaterals. | MA6751<br>MA6752 |
| 6 | Problem Solving-Students will communicate the process for solving problems, describe the steps and solve a simpler problem in real-life problems. | MA6761<br>MA6762 |
| Chapter -"Ratios, Proportions, Percents"-Students will use rations, proportions and percents in order to solve problems. | | |
| Lesson Code | Lesson Title and Description | LA Number |
| 1 | Ratios and Proportions-Students will solve proportions and ratios as decimals and percents. | 67182<br>MA6812<br>67183<br>MA6814 |
| 2 | Solving Proportions and Unit Rates-Students will set up proportions and solve unit rates and problems using geometric pictures. | MA6821<br>MA6822 |
| 3 | Rate-Students will solve problems with rates and simple interest. | 67166<br>MA6832<br>67192<br>MA6834 |
| 4 | Scale and Indirect Measurement-Students will use grids to make scale drawings and use maps to find actual distance. | 67241<br>MA6842<br>67242<br>MA6844 |

| | | |
|---|---|---|
| 5 | Percents-Students will show equivalent forms of percents in fractions and decimals and solve problems that are greater than 100%. | 67164<br>MA6852<br>MA6853<br>MA6854 |
| 6 | Circle Graphs-Students will read and interpret circle graphs and identify appropriate graphs given percent values. | MA6861<br>MA6862 |
| 7 | Solving Percent Problems-Students will find the percent of a number, the whole or the percent. | MA6871<br>MA6872 |
| 8 | Percent and Real-Life-Students will find price using sales tax and discounts. | 67165<br>MA6882 |
| 9 | Problem Solving-Students will make predictions from data and solve multi-step problems. | MA6891<br>MA6892 |
| Chapter -"Geometry"-Students will use geometric concepts in order to solve problems. | | |
| Lesson Code | Lesson Title and Description | LA Number |
| 1 | Basic Geometry Definitions-Students will identify points, rays, lines, line segments and planes. | 6911<br>6912 |
| 2 | Angles-Students will measure and classify angles, solve problems involving unknown angles, find the sum of angles in polygons and identify special angles. | 67216<br>MA6922<br>MA6923<br>MA6924<br>67253<br>MA6926<br>MA6927<br>MA6928<br>67218<br>MA69210 |
| 3 | Classify Lines-Students will classify lines as parallel, perpendicular or skew. | MA6931<br>MA6932 |
| 4 | Classify Triangles-Students will identify similar triangles with proportions and classify by side or angle. | MA6941<br>MA6942 |

| | | |
|---|---|---|
| 5 | Triangles-Students will find the missing measures using the Pythagorean Theorem. | 67252<br>MA6952 |
| 6 | Classify Polygons-Students will identify name of shape by sides. | MA6961<br>MA6962 |
| 7 | 3-Dimensional Figures-Students will identify characteristics of three-dimensional figures using faces, edges and vertices and identify different views. | MA6971<br>MA6972<br>MA6973<br>MA6974 |
| 8 | Classify Quadrilaterals-Students will classify quadrilaterals and find cross sections. | MA6981<br>MA6982 |
| 9 | Geometric Patterns-Students will find the missing term in a geometric pattern and use tessellations. | MA6991<br>MA6992 |
| 10 | Similar, Congruent Figures, Lines of Symmetry-Students will apply concepts of congruency, similarity and symmetry. | 67249<br>MA69102<br>67251<br>MA69104 |
| 11 | Transformations-Students will identify translations, rotations and reflections on a coordinate grid. | MA69111<br>MA69112 |
| 12 | Area-Students will estimate and find area of regular and irregular figures. Students will also compare diameter and radius. | 61760<br>MA69122<br>MA691223<br>MA691224 |
| 13 | Circumference-Students will find area and circumference of a circle. | 67224<br>MA69132 |
| 14 | Proportional Change-Students will find missing sides with similar triangles. | 67254<br>MA69142 |
| 15 | Surface Area-Students will find the surface area. | 67225<br>MA69152<br>67237<br>MA69154 |
| 16 | Volume-Students will find volume of prisms, cubes and cylinders. | 67226<br>MA69162 |
| 17 | Problem Solving-Students will use a | MA69171 |

| | | |
|---|---|---|
| | formula to solve a problem and relate math ideas to other content areas in real-life problems. | MA69172 |
| Chapter -"Functions and Probability"-Students will identify and use functions and probability concepts. | | |
| Lesson Code | Lesson Title and Description | LA Number |
| 1 | Functions-Students will identify function relationships and solve and interpret on graphs. | 67202<br>MA61012<br>MA61013<br>MA61014 |
| 2 | Coordinate Graphing-Students will find the distance between two points and plot points on 4 quadrants. | 67245<br>MA61022<br>67255<br>MA61024 |
| 3 | Problem Solving-Students will draw conclusions from data and justify why an answer is reasonable. | MA61031<br>MA61032 |
| 4 | Introduction to Probability-Students will determine possible outcomes and represent probability with ratios. | 67167<br>MA61042<br>67169<br>MA61044 |
| 5 | Experimental and Theoretical Probability-Students will find the probability of an event. | 67168<br>MA61052 |
| 6 | Compound Events-Students will compare events, compliments and list outcomes using theoretical probability. | MA61061<br>MA61062 |
| 7 | Dependent and Independent Events-Students will identify different between dependent and independent events. | MA61071<br>MA61072 |
| 8 | Combinations and Permutations-Students will find combinations and permutations. | MA61081<br>MA61082 |
| 9 | Problem Solving-Students will solve problems by writing and equation and simplifying algebraic expressions. | MA61091<br>MA61092 |

| "Practice" | | |
|---|---|---|
| Lesson Code | Lesson Title and Description | LA Number |
| 1 | Read and Write Numbers-Students will use numeric digits and words to read and write numbers including the trillions. Students will use the signs <, > and = to order and compare numbers including the trillions. | 6632<br>6633<br>6634 |
| 2 | Round Numbers-Students round to the nearest thousand, nearest ten thousand, nearest hundred thousand and nearest million. Students develop number sense, identify different ways of representing numbers, and visualize and represent numerical relationships. | 6635<br>6636 |
| 3 | Divisibility Rules-Students will apply the divisibility rules of 2, 3, 4, 5, 6, 8, 9 and 10 to various numbers. (Divisibility, divide, division, number sense) | 67113 |
| 4 | Greatest Common Factor-Students will find the greatest common factor among 2 or more numbers. (Numeration, factor, GCF, greatest common factor, multiple) | 67115<br>67156 |
| 5 | Square Numbers-Students will identify square numbers. | 6B003 |
| 6 | Powers of 10-Students will identify powers of 10 through the 6th power. | 6B005<br>6643<br>6644 |
| 7 | Scientific Notation-Students will write numbers in scientific notation and convert scientific notation to standard form. (Scientific notation, powers of ten, exponent, base, decimal) | 6645<br>6646 |
| 8 | Compare Scientific Notation-Students will use the signs <, > and = to compare rational numbers in scientific notation. (Scientific notation, powers of ten, exponent, base, decimal, greater than, less | 67158 |

| | | |
|---|---|---|
| | than, equal, compare) | |
| 9 | Negative Numbers-Students will understand the concept of negative numbers using number line representations. | 6B004 |
| 10 | Number Line-Students will identify and represent integers and rational numbers on a number line. (Number lines, integers, rational numbers, intervals, converting fractions, improper fractions, mixed numbers, terminating decimals, repeating decimals) | 67147<br>6710+6711 |
| 11 | Inequality Symbols-Students will use the symbols <, > and = to compare integers. (Comparing integers, inequalities, less than, greater than, number lines) | 67148<br>6714<br>6715 |
| 12 | Absolute Value-Students will define absolute value and its opposite. (absolute value, opposites, integers, distance) | 67157 |
| 13 | Skills & Strategies-Students will analyze and solve problems using number-sense skills and strategies. Students will develop number sense, identify different ways of representing numbers, and visualize and represent numerical relationships. | 6647<br>6648 |
| 14 | Identify Pattern Rules-Identify and apply pattern rules using diagrams, charts, lists, and tables. Identify and extend figurate number patterns. (triangular, square, etc.) | 6801 6802 |
| 15 | Function Rules-Express function rules using algebraic symbols. (e.g. add 2 expressed as n + 2) | 6803 6804<br>67201 |
| 16 | Function Tables-Identify functional relationships and complete function tables. Identify algebraically the rule used to generate a group of ordered pairs. | 6805 67207 |

| | | |
|---|---|---|
| 17 | Using Patterns & Functions-Solve problems and model real-world situations using patterns and functions. | 6806 6807 |
| 18 | Add & Subtract Integers-Add and subtract integers. Define the Additive Inverse, Identity Element of Addition, and the Equality Property. | 6716 6717 |
| 19 | Multiply & Divide Integers-Multiply and divide integers. Define the Multiplicative Inverse, Zero Property, Identity Element of Multiplication, and the Equality Property. | 67204 |
| 20 | Integers Everyday-Use integers in real-life situations. | 6718 6719 |
| 21 | Simplify Expressions-Simplify algebraic expressions. | 6809 6810<br>67205<br>67211 |
| 22 | Solve One-Step Equations -Solve one-step algebraic equations with a variable and express the solution on a number line. | 67212 |
| 23 | Solve Two-Step Equations-Solve two-step algebraic equations with a variable and express the solution on a number line. | 6811 6812<br>67213 |
| 24 | Simple Linear Word Problems-Write and solve simple linear equations for word problems, and explain reasoning orally or in writing. | 6813 6814 |
| 25 | Inequalities-Solve algebraic inequalities with a varible. Graph the solution set of an algebraic inequality on a number line. | 67214<br>67215 |

| | | |
|---|---|---|
| 26 | Points-Segments-Rays-Lines-Identify and draw points, line segments, angles, rays, planes, parts of a circle, and horizontal, vertical, perpendicular, parallel, and intersecting lines. | 6720 6721<br>66948<br>67257 |
| 27 | Open and Closed Figures-Identify whether figures are open or closed. | 6B013 |
| 28 | Geometric Shapes-Classify, describe, and compare two-dimensional geometric figures. Define and identify attributes of three-dimensional figures. | 6722 6723<br>6728 6729 |
| 29 | Construct Parallelograms-Using a ruler and compass, construct parallelograms. | 6730 6731 |
| 30 | Circles-Investigate and determine the relationship between the diameter and circumference of a circle and the value of pi. | 67160<br>67161 |
| 31 | Angle Measures-Using a protractor, measure and classify acute, right, obtuse, and straight angles. | 6734 6735<br>6736 6737 |
| 32 | Bisectors-Define and identify altitudes, midpoints, diagonals, angle bisectors, and perpendicular bisectors. | 6732 6733<br>6738 6739<br>67217 |
| 33 | Angle Relationships-Define and identify adjacent, vertical, interior, exterior, complementary, and supplementary angles. Define and identify alternate interior, alternate exterior, corresponding, and vertical angles. | 67219 |
| 34 | Construct Triangles-Use a compass and straightedge to construct equilateral, right, and | 6740 6741 |

| | | |
|---|---|---|
| | isosceles triangles. | |
| 35 | Properties of Triangles-Find the measure of the third angle of triangles when given the measure of two angles. | 6742 6743 67253 |
| 36 | Similar Triangles-Use proportions to find the length of a missing side when given the length of two sides of similar triangles. | 6744 6745 |
| 37 | Plotting Points-Plot points on a four quadrant coordinate plane by determining and using ordered pairs of positive and negative whole numbers. | 6724 6725 |
| 38 | Transformations -Locate, give the coordinates of, and graph plane figures which are the results of translations or refelctions in the first quadrant. | 67256 |
| 39 | Symmetry-Explore line and rotational symmetry of objects using transformations. | 67250 |
| 40 | Cross Sections-Identify and classify cross sections of three-dimensional figures. | 67236 |
| 41 | Geometric Models-Use geometric models to solve problems using two-dimensional attributes of three-dimensional figures. | 67238 |
| 42 | Distances on Maps-Use proportional reasoning to determine distances on a map. | 6795 6796 |
| 43 | Geometry Everyday-Identify and use geometric concepts in areas other than mathematics, such as science, architecture, art, and everyday life. | 6758 |

| | | |
|---|---|---|
| 44 | Units of Time-Identify varied units of time including seconds, minutes, hours, days, weeks, months, years, decades, centuries, and milleniums. Relate time by using fractions of an hour or a year. | 6791 6792 67197 |
| 45 | Elapsed Time-Use schedules, calendars, and elapsed time to solve real-world problems. Interpret and create time schedules. Solve problems involving time zones. | 6793 6794 67198 |
| 46 | Rates-Solve problems involving rates, average speed, distance, and time. | 67199 67206 |
| 47 | Estimate Measurements-Estimate the length, weight/mass, and capacity/volume of an object, and compare the estimate with an actual measurement. | 6785 6786 |
| 48 | Indirect Customary Measurement-Determine lengths, weights, and capacities using proportional reasoning and indirect measurement. | 67173 67180 |
| 49 | Converting Metric Units-Choose the proper tool/unit for measurement. Convert between units in the metric system. | 6787 6788 |
| 50 | Indirect Metric Measurement-Determine length, mass, and capacity using proportional reasoning and indirect measurement. | 67178 67179 |
| 51 | Add & Subtract Common Units-Use common units of measurement when solving problems involving addition and subtraction of different units. | 6789 6790 |
| 52 | Problems Involving Measurement-Select and | 6799 6800 |

| | | |
|---|---|---|
| | use appropriate units, tools, and formulas to solve problems involving length, area, time, temperature, capacity, and weight. | |
| 53 | Comparing Units-Make comparisons with measurements in metric and customary units. Determine the best unit for measurement. | 67184 |
| 54 | Converting Between Systems-Convert units from one system to another. | 67185 |
| 55 | Indirect Measurement-Determine missing units using proportional reasoning and indirect measurement. | 67186<br>67193 |
| 56 | Relate Scale to Ratio-Make scale drawings using centimeter grids to relate scale to ratio. | 6797 6798 |
| 57 | Perimeter & Area Formulas-Use formulas to calculate the perimeter and area of triangles and parallelograms. (breaking polygons into components) | 6746 6747<br>67209 |
| 58 | Triangle Area & Perimeter-Using the formulas A = (1/2)bh and P = s1 + s2 + s3, find the area and perimeter of triangles. | 6748 6749 |
| 59 | Comparing Perimeter & Area-Compare perimeter and area and understand that two figures can have the same measures on one attribute but not on another. | 67210<br>67220 |
| 60 | Circumference and Area-Use formulas to calculate the area and circumference of circles. | 6750 6751 |
| 61 | Surface Area-Explore surface area of | 67225 |

| | | |
|---|---|---|
| | rectangular prisms, cubes, and cylinders. | |
| 62 | Rectangle Prism Volume-Using the formula volume = area of base x height (V = A x h), find the volume of rectangular prisms. | 6752 6753 |
| 63 | Use a Calculator-Using a calculator, find the area of triangles and parallelograms, the volume of rectangular prisms, and the circumference of circles. | 6754 6755 |
| 64 | Collecting and Organizing Data-Identify steps involved with conducting a survey to generate accurate data. Record and organize data in a clear and concise manner using tally tables and frequency tables. | 6762 6763 |
| 65 | Summarize Data-Summarize data by determining the range, outliers, and measures of central tendency (mean, mode, median) based on given data. | 6760 6761<br>6764 6765 |
| 66 | Graphs that Compare-Based on given data, create and interpret graphs that compare including bar graphs, histograms, and circle graphs. | 67230<br>67231 |
| 67 | Organizing Population Data-Use a variety of sources to collect, organize, and display data about local, state, national, and world populations. | 6766 6768 |
| 68 | Data in Tables & Graphs-Solve problems requiring interpretation and application of data organized in tables and graphs. | 6769 6770 |
| 69 | Events and Complements-Calculate the probability of an event and its complement. | 6777 6778 |

| | | |
|---|---|---|
| | (odds for and against, in proportions and percentages) | |
| 70 | Probability-Analyze and solve problems using ratio, percentage, and probability skills and strategies. Explore the terms fair and equally likely in game events. | 6781 67169 67170 |
| 71 | Ratios-Determine and express ratios in a variety of ways. Find and use equivalent ratios and express them as decimals and percentages. | 6771 6772 6773 6774 |