Third Grade

Math Curriculum

Numbers and Number Sense

- Read and write numbers (in digits and words) up to six digits.
- Recognize place value up to hundred thousand.
- Order and compare numbers to 999,999, using the signs <, >, and =.
- Count by twos, threes, fives, and tens; count by tens from any given number.
- Write numbers in expanded form.
- Use a number line.
- Identify ordinal position, 1st to 100th.
- Review: even and odd numbers; dozen; half-dozen; pair.
- Round to the nearest ten; to the nearest hundred.
- Identify perfect squares (and square roots) to 100, and recognize the square root sign: √ ——.
- Identify Roman numerals from 1 to 20 (I - XX).
- Understand what negative numbers are in relation to familiar uses (such as temperatures below zero).
- Locate positive and negative whole numbers on a number line.
- Create and interpret bar graphs and line graphs.
- Record outcomes for a simple event (for example, tossing a die) and display the results graphically.

Fractions and Decimals

- Recognize fractions to 101 and fractions whose denominator is 100.
- Identify numerator and denominator.
- Write mixed numbers.
- Recognize equivalent fractions (for example, ½ = 63).
- Compare fractions with like denominators, using the signs <, >, and =.
- Know and write decimal equivalents to ¼, ½. g. Read and write decimals to the hundredths

Money

- Write amounts of money using $ and ¢ signs, and the decimal point.
- Make change, using as few coins as possible.
- Add and subtract amounts of money.
- Multiply and divide amounts of money by small whole numbers.

Addition

- Review and Practice Basic Addition Facts.
- Mentally Estimate a Sum.
- Use Mental Computation Strategies.
- Addition With and Without Regrouping: Find the Sum (Up To 10,000) Of Any Two Whole Numbers.

Subtraction

- Understand Addition and Subtraction as Inverse Operations; Use Addition to Check Subtraction.
- Review and Practice Basic Subtraction Facts.
- Mentally Estimate the Difference.
- Use Mental Computation Strategies.
- Subtraction With and Without Regrouping: Given Two Whole Numbers Of 10,000 Or Less, Find the Difference.

Multiplication

- Master basic multiplication facts to 10 x 10.
- Mentally multiply, by 10, 100, and 1,000.
- Multiply two whole numbers, with and without regrouping, in which one factor is 9 or less and the other is a multi-digit number up to three digits.
- Write numbers in expanded form using multiplication, for example: 9,278 = (9 x 1,000) + (2 x 100) + (7 x 10) + 8.
- Estimate a product.
- Solve word problems involving multiplication.

Division

- Understand Multiplication and Division as Inverse Operations.
- Know the Meaning of Dividend, Divisor, And Quotient.
- Know Basic Division Facts To 100 ÷ 10.
- Know That Any Number Divided By 1 = That Number.
- Divide Two- And Three-Digit Dividends by One-Digit Divisors.
- Solve Division Problems with Remainders.
- Check Division by Multiplying (And Adding Remainder).

Solving Problems and Equations

- Solve two-step word problems.
- Solve equations in the form of ___ x 9 = 63; 81 ÷ ___ = 9.
- Solve problems with more than one operation, as in (43 - 32) x (5 + 3) = ___.
- Read and write expressions that use parentheses to indicate order of multiple operations.

Measurement

- **Linear Measure**
  - **Make linear measurements in yards, feet, and inches; and, in centimeters and meters.**
  - **Know that one foot = 12 inches; one yard = 36 inches; 3 feet = 1 yard;**
- **1 meter = 100 centimeters; 1 meter is a little more than one yard.**
  - **Measure and draw line segments in inches (to 1/4 inch), and in centimeters.**
  - **Estimate linear measurements, then measure to check estimates.**
- **Weight**
  - **Compare weights of objects using a balance scale.**
  - **Estimate and measure weight in pounds and ounces; grams and kilograms.**
  - **Know abbreviations: lb., oz., g, kg.**

Measurement

- Capacity (Volume)
- Estimate and Measure Liquid Capacity In Cups, Pints, Quarts, Gallons, And Liters.
- Know That 1 Quart = 2 Pints; 1 Gallon = 4 Quarts.
- Compare U.S. And Metric Liquid Volumes: Quart and Liter (One Liter Is A Little More Than One Quart).
- Temperature
- Measure and Record Temperature In Degrees Fahrenheit And Celsius.
- Know the Degree Sign: °
- Identify Freezing Point of Water As 32° F = 0° C.
- Time
- Read A Clock Face and Tell Time To The Minute As Either A. m. or p.m.; tell time in terms of both “minutes before” and “minutes after” the hour.
- Solve problems on elapsed time (how much time has passed?).
- Using a calendar, identify the date, day of the week, month, and year.
- Write the date using words (for name of month) and numbers, and only numbers

Geometry

- Identify lines as horizontal, vertical, perpendicular, or parallel.
- Name lines and line segments (for example, line AB; segment CD).
- Polygons: recognize vertex (plural: vertices); identify sides as line segments (for example, side CD); identify pentagon, hexagon, and octagon (regular).
- Identify angles by letter names (for example, /____ A B C) ; identify a right angle; know that there are four right angles in a square or rectangle.
- Compute area in square inches (in 2) and square centimeters (cm 2).
- Recognize and draw congruent figures; identify a line of symmetry and create symmetric figures.
- Identify solid figures: sphere, cube, rectangular solid, pyramid, cone, cylinder.