

Math Program: The Scott Foresman/Addison Wesley textbook series is used in grades three through five. Sixth through eighth grades use the Glencoe Mathematics textbook series, while the eighth pre-algebra students utilize the Glencoe Pre Algebra text. All texts adhere to the National Standards for Teachers of Math and the Louisiana Grade Level Expectations for mathematics. All classes are taught in heterogeneously mixed homeroom classes with the exception of eighth grade. Eighth graders are ability grouped for math. Students are engaged in learning math skills through the use of pencil and paper, manipulatives, power point presentations, Starboards, white boards, write-on wipe-off boards, digital cameras, computers, etc.

✚ **Third grade** centers math instruction on the following concepts and skills:


1. Place Value and Money: Numbers in the hundreds and thousands, place value patterns, greater numbers, building number sense by comparing, ordering and rounding numbers, counting money and making change
2. Addition and Subtraction Number Sense: addition properties, relating addition and subtraction, finding a rule, writing a number sentence (using some simple Algebra), breaking numbers apart and using tens to add with mental math, estimating sums, overestimates and underestimates, using tens to subtract and counting on to subtract using mental math, estimating differences
3. Adding and Subtracting: adding two-digit, three-digit and three or more-digit numbers, regrouping to subtract, subtracting two-digit, three-digit numbers, subtracting across zero
4. Using Addition and Subtraction: adding and subtracting money, choosing a computation method, equality and inequality (using simple Algebra)
5. Time, Data and Graphs: time to the half hour, quarter hour and minutes, elapsed time, using a calendar, organizing data by using tally charts and line plots, reading pictographs and bar graphs, graphing ordered pairs (simple Algebra), reading line graphs, making pictographs, bar graphs and line graphs
6. Multiplication Concepts and Facts: multiplication as repeated addition (simple Algebra), arrays and multiplication (simple Algebra), writing multiplication stories, 2 as a factor, 5 as a factor and 10 as a factor, multiple step problems, multiplying with 0 and 1 (simple Algebra), 9 as a factor. 3. 4. 6. 7 & 8 as factors, using multiplication to compare, patterns on a table, multiplying with 3 factors (simple Algebra), find a rule (simple Algebra)
7. Division Concepts and Facts: division of sharing, division of repeated subtraction, writing division stories, relating multiplication to division (simple Algebra), dividing with 2 and 5, 3 and 4, 6 and 7, 8 and 9, 0 and 1, remainders, division patterns with 10, 11, 12
8. Geometry and Measurement: solid figures, relating solids and shapes, lines and line segments, angles, polygons, triangles, quadrilaterals, congruent figures and motion, symmetry, perimeter, area, volume
9. Fractions and Measurement: equal parts of a whole, naming fractional parts, equivalent fractions, comparing and ordering fractions, estimating fractional amounts, fractions on the number line, fractions and sets, finding fractional parts of a set, adding and subtracting fractions, mixed numbers, length, measuring to the nearest $\frac{1}{2}$ and $\frac{1}{4}$ inch, length in feet and inches, feet, yards and miles
10. Decimals and Measurement: tenths, hundredths, comparing & ordering decimals, adding & subtracting decimals, centimeters and decimeters, meters and kilometers

11. Multiplying and Dividing Greater Numbers: multiplication patterns (mental math), estimating products, division patterns (mental math), estimating quotients, multiplication and arrays, breaking numbers apart to multiply, multiplying two-digit and three-digit numbers, multiplying money, using objects to divide, breaking numbers apart to divide, dividing
12. Measurement and Probability: customary units of capacity and weight , milliliters and liters, grams and kilograms, temperature, describing chances, fair and unfair, probability

✚ **Fourth grade** focuses on the following mathematical concepts and skills:

1. Place Value and Money: Numbers in the thousands, place value patterns, greater numbers, comparing, and ordering and numbers, size of numbers, using money to understand decimals, counting money and making change, decimals
2. Adding and Subtracting Whole Numbers and Money: adding, subtracting using mental math, estimating sums and differences, overestimates and underestimates, adding whole numbers and money, column addition, subtracting whole numbers and money, choose a computation method, translating words to expressions (Algebra), matching words and number expressions (Algebra), evaluating expressions (Algebra), solving addition and subtraction equations (Algebra)
3. Multiplication and Division Concepts and Facts: meanings for multiplication, patterns in multiplying by 0, 1, 2, 5, and 9, using known facts to find unknown facts, multiplying by 10, 11 and 12, meanings for division, relating multiplication and division, division facts, special quotients, multiplication and division stories, writing and evaluating expressions (Algebra), find a rule (Algebra) and solving multiplication and division equations (Algebra)
4. Time, Data and Graphs: telling time, units of time, elapsed time, calendars, pictographs, line plots, bar graphs, graphing ordered pairs (Algebra), line graphs (Algebra), median, mode and range, data from surveys, misleading graphs
5. Multiplying by One-Digit Numbers: multiplying by multiples of 10, 100, or 1,000, estimating products, mental math, using arrays to multiply, multiplying two-digit and one-digit, multiplying three-digit and one-digit numbers, multiplying money, multiplying three factors (Algebra)
6. Multiplying by Two-Digit Numbers: multiplying multiples of ten, estimating products, using arrays to multiply, multiplying two-digit numbers, multiplying greater numbers, choose a computation method, multiplying money
7. Dividing: using patterns to divide mentally, estimating quotients, dividing with remainders, two-digit quotients, dividing two-digit numbers, dividing three-digit numbers, zeros in the quotient, dividing money amounts, divisibility rules, finding averages, dividing by multiples of 10, dividing two-digit divisors
8. Geometry and Measurement: relating solids and plane figures, polygons, lines, line segments, rays and angles, triangles and quadrilaterals, circles, congruent figures and motions, symmetry, similar figures, perimeter (Algebra), area (Algebra), volume (Algebra)
9. Fraction Concepts: parts of a region, parts of a set, fractions, length, and the number line, estimating fractional parts, equivalent fractions, fractions in simplest form, using number sense to compare fractions, comparing and ordering fractions, mixed numbers and improper fractions, comparing mixed numbers, circle graphs

10. Fraction Operations and Customary Measurement: estimating fraction sums, adding fractions with like denominators, adding fractions with unlike denominators, subtracting fractions with like denominators, subtracting fractions with unlike denominators, length and customary units, fractions of an inch, capacity and customary units, changing units and comparing measures
11. Decimals and Metric Measurement: decimals and fractions, decimal place value, comparing and ordering decimals, rounding decimals, estimating decimal sums and differences, using grids to add and subtract decimals, adding and subtracting decimals, length and metric units, capacity and metric units, mass and metric units, changing units and comparing measures
12. Graphing and Probability: inequalities on a number line (Algebra), translating words to equations (Algebra), equations and graphs (Algebra), understanding probability, listing outcomes, finding probability, making predictions

 **Fifth grade** continues to build on the mathematical concepts and facts in the following ways:

1. Place Value and Money: place value, comparing and ordering whole numbers, place values through thousandths, comparing and ordering decimals, place value patterns, adding and subtracting mentally, rounding whole numbers and decimals, estimating sums and differences, adding and subtracting whole numbers, adding decimals, subtracting decimals
2. Adding and Subtracting Whole Numbers and Decimals: multiplication patterns, estimating products, mental math: using the distributive property (Algebra), multiplying whole numbers, choose a computation method, decimal patterns, estimating decimal products, multiplying whole numbers and decimals, using grids to multiply decimals by decimals, multiplying decimals by decimals, variables and expressions (Algebra), translating words into expressions (Algebra), find a rule (Algebra), solving equations (Algebra)
3. Dividing with One-Digit Numbers: meaning of division, division patterns, estimating quotients, look for a pattern, understanding division, dividing whole numbers, zeros in the quotient, dividing larger dividends, dividing money, factors and divisibility, prime and composite numbers, order of operations (Algebra), graphing ordered pairs (Algebra), rules, tables and graphs (Algebra)
4. Dividing with Two-Digit Divisors: dividing by multiples of 10, estimating with two-digit divisors, dividing whole numbers by two-digit divisors, dividing larger numbers, dividing by choosing a computation method, dividing with zeros in the quotient, dividing decimals by 10, 100, and 1, 000, dividing money by two-digit divisors, dividing decimals by whole numbers
5. Data, Graphs and Probability: collecting data from a survey, bar graphs, line graphs, stem-and-leaf plots, mean, median and mod, circle graphs, choosing an appropriate graph, predicting outcomes, listing outcomes, expressing probability as a fraction
6. Geometry: geometric ideas, measuring and classifying angles, segments and angles related to circles, polygons, classifying triangles, classifying quadrilaterals, congruence and similarity, transformations, symmetry
7. Fractions and Concepts: meanings of fractions, fractions and division, mixed numbers, estimating fractional amounts, fractions and mixed numbers on the number line,

understanding equivalent fractions, equivalent fractions, greatest common factor, fractions in simplest form, understanding comparing fractions, comparing and ordering fractions and mixed numbers, fractions and decimals, fractions and decimals on the number line

8. Fraction Operations: adding and subtracting fractions with like denominators, understanding adding and subtracting with unlike denominators, least common denominator, adding and subtracting fractions with unlike denominators, understanding adding and subtracting mixed numbers, estimating sums and differences of mixed numbers, adding mixed numbers, subtracting mixed numbers, multiplying fractions by whole numbers, estimating products of fractions, multiplying fractions, multiplying mixed numbers, understanding division with fractions
9. Measurement: customary units of length, measuring with fractions of an inch, metric units of length, converting metric units using decimals, finding perimeter, finding circumference (Algebra), finding area, areas of squares and rectangles (Algebra), areas of parallelograms (Algebra), areas of triangles (Algebra), time, elapsed time, temperature
10. Measuring Solids: solid figures, views of solid figures, surface area, volume (Algebra), customary units of capacity, metric units of capacity, customary units of weight, metric units of mass
11. Ration, Proportion and Percent: understanding ratios, equal ratios, graphs of equal ratios (Algebra), rates, make a table, scale drawings, understanding percent, finding a percent of a number (mental math), estimating percents
12. Algebra: Integers, Equations, and Graphing: properties of equality, solving addition and subtraction equations, solving multiplication and division equations, writing an equation, understanding integers, adding integers, subtracting integers, the coordinate plane, graphing equations