



**Curriculum Document for Mathematics**

**Course Title: elementary school**

**Grade: 3**

**Learner Objective #1: Students will use appropriate vocabulary and reasoning skills when solving problems.**

- Add basic facts up to 18
- Subtract facts from 18 or less
- Complete fact families
- Compare numbers by using less than and greater than
- Order numbers
- Rounding numbers to the nearest ten or hundred
- Relate multiplication to repeated addition
- Multiply basic facts to 9
- Practice division facts through 9
- Choose math operation and write a number sentence to solve

**Learner Objective #2: Students will effectively use numbers for counting, measuring, estimating, and problem solving.**

- Add numbers with two or more digits, with and without regrouping
- Subtract numbers with two or more digits, with and without regrouping
- Use addition and subtraction to guess, check, work backwards to solve problems
- Estimate sums and differences
- Identify minutes and hours on digital and analog clocks
- Estimate amounts of time
- Tell time to the minute
- Solve problems involving elapsed time
- Read and use a schedule
- To count, name, and compare amounts of money using coins and bills
- Solve problems by adding and subtracting amounts of money
- Use cardinal, ordinal, benchmark numbers, and patterns to estimate quantities

- Identify place-value position in digit and expanded form
- Identify, read, write, and compare fractions
- Name and compare fractional parts
- Read, write, and compare decimals

**Learner Objective #3: Students will use geometric concepts and relationships to interpret, represent, and solve problems.**

- Identify, sort, and compare solid figures
- Identify plain figures, extended patterns, and solid figures
- Identify lines, line segments, angles, plain figures, and solid figures
- Locate points on a grid
- Identify lines of symmetry and draw picture to solve problems
- To slide, flip, and turn figures and identify each of the motions

**Learner Objective #4: Students will use appropriate tools to measure accurately. Students will use measurements in problem-solving situations.**

- Identify units of measurement to the nearest half-inch
- Estimate and compare capacity and weight
- Use metric units to determine length of objects to centimeters
- Estimate and compare capacity and mass
- To find the perimeter of an object or plane figure and area of a figure

**Learner Objective #5: Students will use data and statistics in problem-solving situations.**

- Solve problems using elapsed time
- Read and use a schedule to solve problems
- To read and record data using surveys, experiments and tables
- Read and interpret pictographs and bar graphs to show comparisons
- Predict events, outcomes and solve problems

**Learner Objective #6: Students will use patterns and generalizations to define and solve problems.**

- To find and use patterns by working with groups of 10
- To identify and use patterns of hundreds and thousands
- Generate geometric patterns
- Identify place value patterns or positions
- Use counting patterns