



## Curriculum Document for Mathematics

Course Title: elementary school

Grade: 1

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

- Add basic facts to 18
- Use pictures to find sums
- Subtract facts from 18 or less
- Find the sum of 3 addends
- Use counting on, doubles and doubles plus 1 to find sums
- Solve addition facts by acting them out
- Identify fact families
- Solve story problems by adding or subtracting
- Use counting back to solve problems.
- Compare groups of objects to find the difference
- Order numbers
- Count by twos, fives, and tens to 100
- Identify a number as even or odd
- Identify tens and ones
- Add 2 column numbers
- Subtract 2 column numbers

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

- Count groups of tens and ones to 100 and write the number
- Identify ordinal numbers first through twelfth
- Identify which of 2 numbers is greater or less

- Identify numbers that come before, after, or between other numbers
- Order numbers from least to greatest and greatest to least
- Count groups of pennies, nickels, and dimes
- Count the combination of a group of coins and give the value
- Read and fill in the dates of a calendar
- Tell time to the hour and the half hour
- Estimate the time needed to do a task a minute or less
- Identify equal parts halves, thirds and fourths of a whole

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

- Identify and sort solid figures
- Identify and sort plane figures by the number of sides and corners
- Identify figures that have the same size and shape
- Identify the line of symmetry in plane figures
- Identify plane figures as opened or closed

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

- Use nonstandard units to measure length
- Measure the length of objects in inches
- Measure the length of objects in centimeters
- Estimate and then weigh an object to determine which is heavier
- Estimate and then measure how many cups a container will hold
- Classify the temperature of objects as hot or cold

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

- To read a calendar
- To sequence events
- Estimate which or 2 tasks will take more time
- Sort objects and record data in tally tables
- Make predictions and record data in tally tables
- Record and interpret data in tally tables and bar graphs

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

- Identify, reproduce, and extend patterns
- Create patterns
- Analyze and correct patterns
- To count by twos, fives, and tens to 100