



**Curriculum Document for Mathematics**

**Course Title: elementary school**

**Grade: K**

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

- Recognizing ordering and positioning (size, top, bottom)
- Recognize concepts such as more, one more and as many as
- Compare small, large, near, far, etc.

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

- Identify and recognize the whole numbers from 1 to 20
- Count to 20
- Explore subtraction facts
- Explore addition facts
- Write numbers 1 to 10
- Introduce tens and ones value
- Identify coins ( penny, nickel, dime)
- Introduce estimation

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

- Identify circle, triangle, square, rectangle, star, oval, diamond, circle
- Reproduce the basic shapes (square, rectangle, circle, triangle)

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

- Explore time to the hour
- Introduce the fractions  $\frac{1}{2}$  and  $\frac{1}{4}$

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

- Introduce basic graphs

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

- Identify and classify objects according to size, shape and color
- Patterns AB, ABC